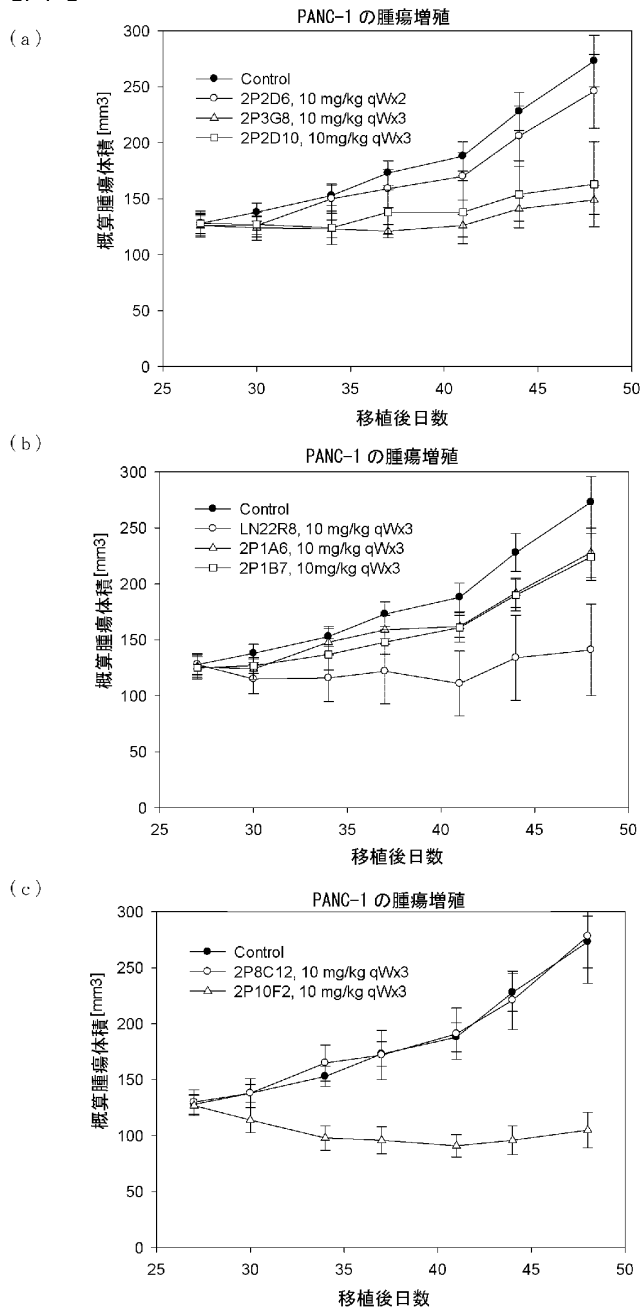
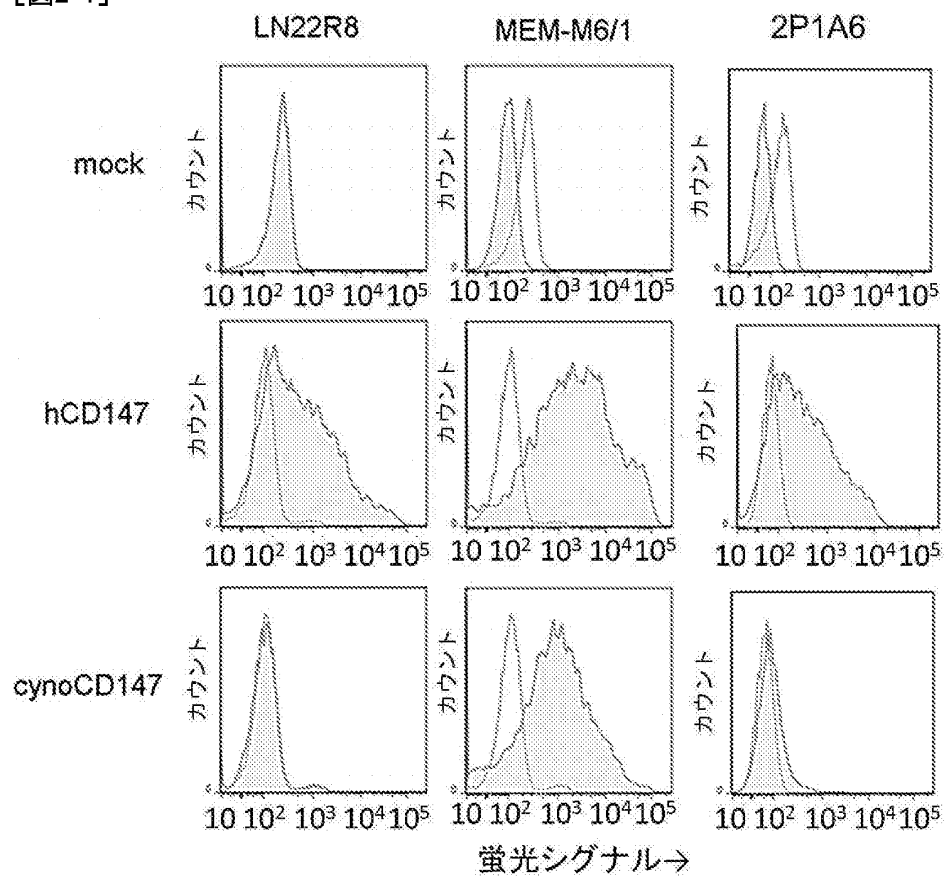


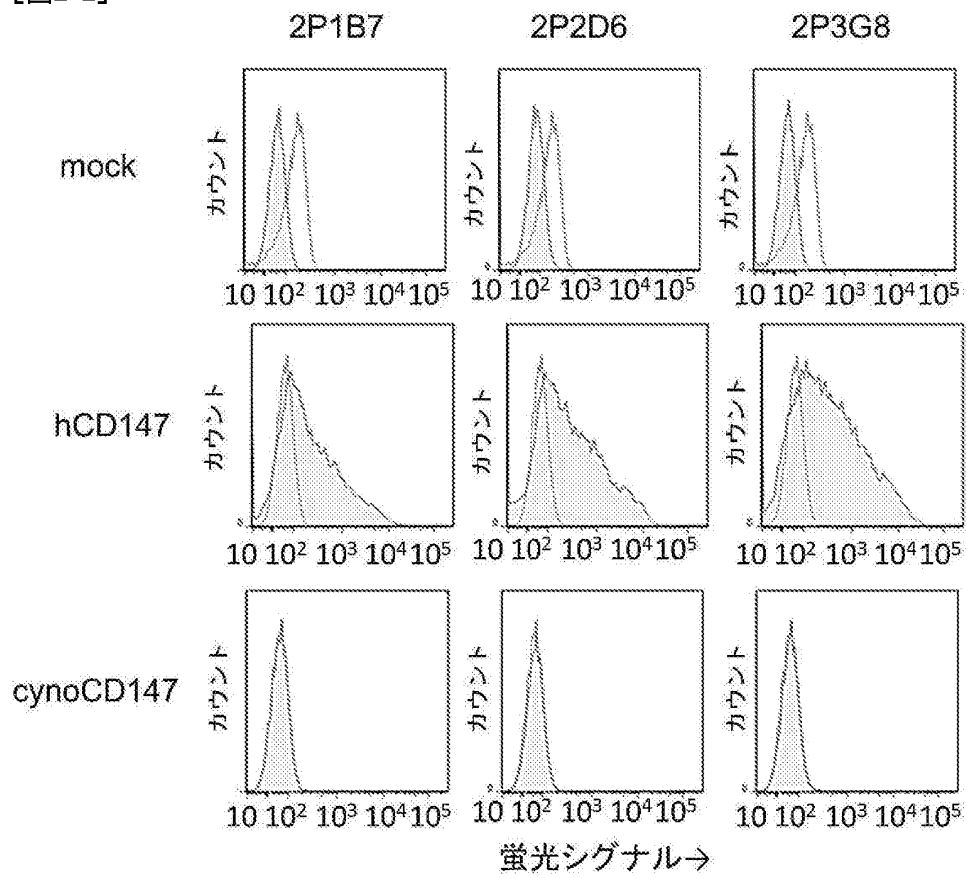
【図1】



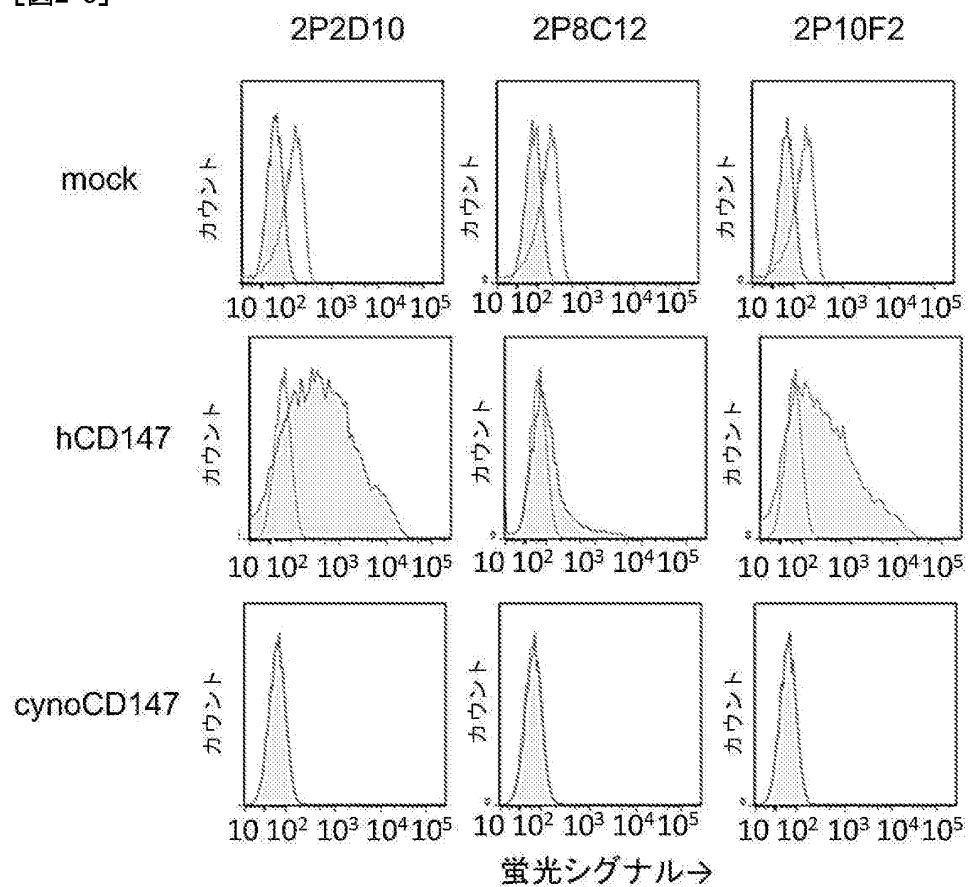
[図2-1]



[図2-2]



[図2-3]



[3]

Score	Expect	Method	Identities	Positives	Gaps
705 bits(1820)	0.0	Compositional matrix adjust.	339/389(87%)	359/389(92%)	4/389(1%)
cynoCD147	1	MAATLVLGLGALLGAHGSAGAFVQAPLSQQRWVGSGVELHCEAVGSPVPEIQWFEF			60
hCD147v1	1	MAA LFLVLLG ALLG HGASGAAGFVQAPLSQQRWVGSGVELHCEAVGSPVPEIQWFEF			60
cynoCD147	61	HGENDICSQIWDGARLDVRVHAIYHQHAASTISIDTIAEEDIGTYECRASNDPDRNHLT			120
hCD147v1	61	QGENDTCSQLWDGARLDVRVHAIYHQHAASTISIDTL EEDTGTGECRASNDPDRNHLT			120
cynoCD147	121	RAPRVKWRVRAQAVLVLEPGTSTSVENIGSKLLTCSLNDSSIEVTGHRNLKGGAVLKE			180
hCD147v1	121	RAPRVKWRVRAQAVLVLEPGT T+VE+GSK LLTCSLNDSS+TEVTGHRNLKGG VLKE			180
cynoCD147	181	DILPGQKIDFEVDSDDLGEYSCVFLEPFTGRADIQDALLSGAPRVKAVKSSSEHVSEGE			240
hCD147v1	181	DALPGQKTEEFKVDSDQNGEYSCVFLEPFTGEMGTIANIQ----LHGPRVKAVKSSSEHINEGE			236
cynoCD147	241	TAVLECKSESLPPVTITWYKIIDSGDQVIVNGSQRRFFVSSSQGRSELRIENLNMEADH			300
hCD147v1	237	TAMLVCKSESVPPVIDMAYKIIDSEDKALMNGSEIRFFVSSSQGRSELHIENLNMEADH			296
cynoCD147	301	GKACNGISSEGTDOATILRVRSHEALNPFLGIVAEVLVLVLIIFIYEKRRKRPEDVLD			360
hCD147v1	297	GQYKNGISSEKGSQAIITLRVRSHEALNPFLGIVAEVLVLVLIIFIYEKRRKRPEDVLD			356
cynoCD147	361	DDDAGSAPLKSIGQHNLNDGKXVRQNRSS			389
hCD147v1	357	DDDAGSAPLKS+GQH NDKGK VRQNRSS			385

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[図4-1]

配列番号 7 : L N 2 2 R 8 の軽鎖の可変領域のヌクレオチド配列

GACATCCAGATGACCCAGTCTCCATCCTCCTTATCTGCCTCTCTGGGAGAAAGAGTCAGTCTCACTTGTGGGCAAGTCTGGAAATT
 AGTGGTTTCTTAAGTTGGCTTCAGCAGAAACCAGATGGAATAAAGCCTGATCTACGCCGCATCCATTTAGATTCTGGTGTG
 CCAAAAAGGTTCAAGTGGCAGTAGGTCTGGGTGAGATTATTCTCTCACCATCAGCAGCCTTGAGTCTGAAGATTTGCAGACTATTAC
 TGTCTACAATATGCTAGTTATCCGTGGACGTTGGGTGGAGGCACCAAGCTGGAATCAAACGG

配列番号 8 : L N 2 2 R 8 の軽鎖の可変領域のアミノ酸配列 (各 CDR に下線)

DIQMTQSPSSLSASLGERVSLTCRASLEISGFLSWLQQKPDGTIKRLIYAAASILDSGVPKRFSGRSGSDYSLTISSESEDFADYY
CLQYASYPWTFGGGKLEIKR

配列番号 11 : L N 2 2 R 8 のCDRL1のアミノ酸配列

RASLEISGFLS

配列番号 12 : L N 2 2 R 8 のCDRL2のアミノ酸配列

AASILDS

配列番号 13 : L N 2 2 R 8 のCDRL3のアミノ酸配列

LQYASYPWT

[図4-2]

配列番号 9 : L N 2 2 R 8 の重鎖の可変領域のヌクレオチド配列

CAGATCCAGTTGGTGCAGTCTGGACCTGAGCTGAAGAAGCCTGGAGAGACAGTCAAGATCTCCTGCAAGGCTTCTGGGTATACCTTC
 ACAAACTATGGAATGAAGTGGGTGAAGCAGGCTCCAGGAAAGGGTTTAAAGTGGATGGGCTGGATAAACACCTACACTGGAGAGCCA
 ACATATGCTGATGACTTCAAGGGACGGTTTGCCTTCTCTTGGAAACCTCTGCCAGCACTGCCTATTTGCAGATCAACAACCTCAAA
 AATGAGGACACGGCTACATATTTCTGTGCAAGAGGGGGGTATGGTAACACGGGGCGGGGGCTATGGACTACTGGGGTCAAGGTACC
 TCAGTCACCGTCTCCTCA

配列番号 10 : L N 2 2 R 8 の重鎖の可変領域のアミノ酸配列 (各 CDR に下線)

QIQLVQSGPELKPKGETVKISCKASGYTFTNYGMNWVKQAPGKGLKWMGWWINTYTGEPTYADDFKGRFAFSLETSASTAYLQINNLK
 NEDTATYFCARGGYGNYGAGAMDYWGQGSVTVSS

配列番号 14 : L N 2 2 R 8 のCDRH1のアミノ酸配列

GYTFTNYGMN

配列番号 15 : L N 2 2 R 8 のCDRH2のアミノ酸配列

WINTYTGEPT

配列番号 16 : L N 2 2 R 8 のCDRH3のアミノ酸配列

GGYGNYGAGAMDY

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【図5-1】

配列番号 17 : 2 P 1 O F 2 の軽鎖の可変領域のヌクレオチド配列

GACATCCAGATGACACAGTCTCCAGCTTCCTGTCTGCATCTCTGGGAGAACTGTCTCCATCGAATGTCTTGCAAGTGAGGGCATT
 TCCAATAGTTTAGCGTGGTATCAGCAGAAGCCAGGGAAATCTCCTCAGCTCCTGATCTATGGTGCAAGTAGCTTGCAAGACGGGGTC
 CCATCACGGTTCAGTGGCAGTGGATCTGGCACACAGTATTCTCTCAAGATCAGCGGCATGCAACCTGAAGATGAAGGGGTTTATTAC
 TGTCAACAGGGTTACAAGTATCCATTACGTTCCGGCTCAGGGACGAAGTTGAAATAAAACGG

配列番号 18 : 2 P 1 O F 2 の軽鎖の可変領域のアミノ酸配列 (各 CDR に下線)

DIQMTQSPASLSASLGETVSIECLASEGISNSLAWYQQKPGKSPQLLIYGASSLQDGVPSRFSSGSGSGTQYSLKISGMQPEDEGVYY
 CQQGYKYPFTFGSGTKLEIKR

配列番号 21 : 2 P 1 O F 2 の C D R L 1 のアミノ酸配列

LASEGISNSLA

配列番号 22 : 2 P 1 O F 2 の C D R L 2 のアミノ酸配列

GASSLQD

配列番号 23 : 2 P 1 O F 2 の C D R L 3 のアミノ酸配列

CQQGYKYPFT

【図5-2】

配列番号 19 : 2 P 1 O F 2 の重鎖の可変領域のヌクレオチド配列

GAGGTGCAGCTTCAGGAGTCAGGACCTGGCCTTGTAACCCCTCACAGTCAGTCTCCCTCACCTGTTCTGTCACTGGTTACTCCATC
 ACTAGTAATTACTGGGGCTGGATCCGGAAGTTCCAGGAATAAAATGGAGTGGATGGGATGCATAACCTACAGTGGTGGCACTAGC
 TACAACCCATCTCTCAAAGTCGAATCTCCATTACTAGAGACACATCAAAGAATCAGTTCTTCCTGCAGTTGAACTCTGTAACACT
 GAGGACACAGCCACATATTACTGTGCAAGTTCCTATACCAGTGGTGACGTCGATTACTGGGGCCAAGGAGTCATGGTCACAGTCTCC
 TCA

配列番号 20 : 2 P 1 O F 2 の重鎖の可変領域のアミノ酸配列 (各 CDR に下線)

EVQLQESGPGLVKPSQSLSTCSVTGYSITSNYWGWIRKFPGNKMEWMGCITYSGGTSYNPSLKSRSITRDTSKNQFFLQLNSVTT
 EDTATYYCASSYTSGDVDYWGQGMVTVSS

配列番号 24 : 2 P 1 O F 2 の C D R H 1 のアミノ酸配列

GYSITSNYWG

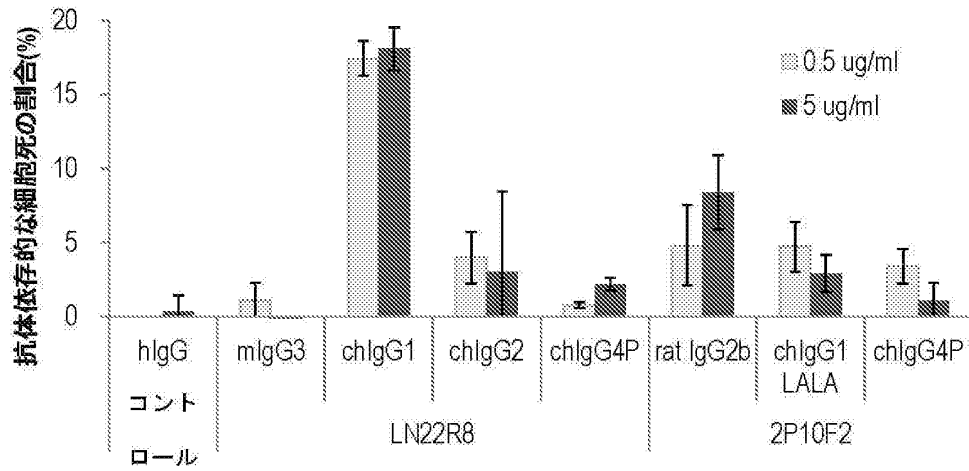
配列番号 25 : 2 P 1 O F 2 の C D R H 2 のアミノ酸配列

CITYSGGTS

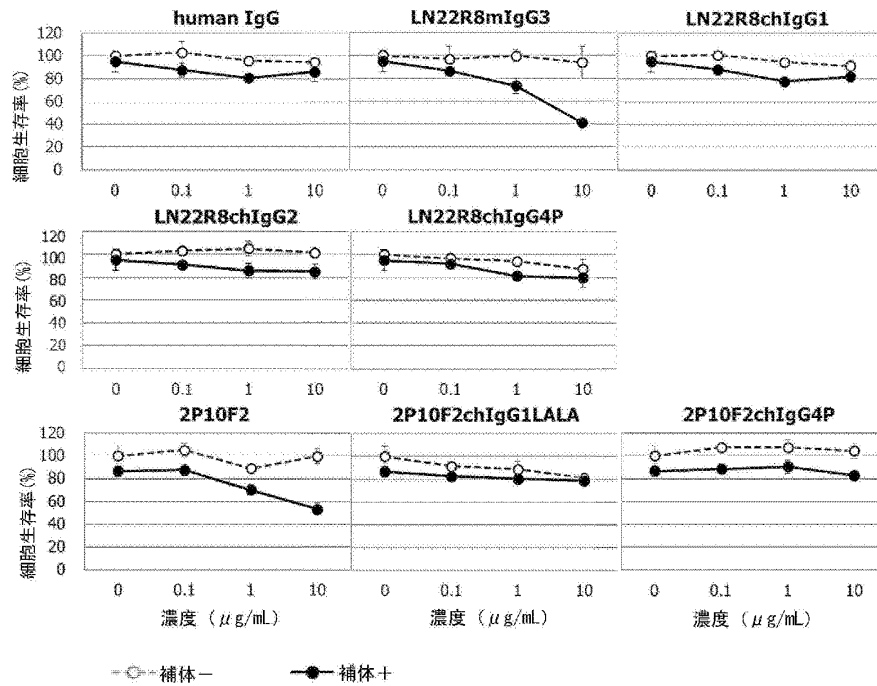
配列番号 26 : 2 P 1 O F 2 の C D R H 3 のアミノ酸配列

SYTSGDVDY

[図6]

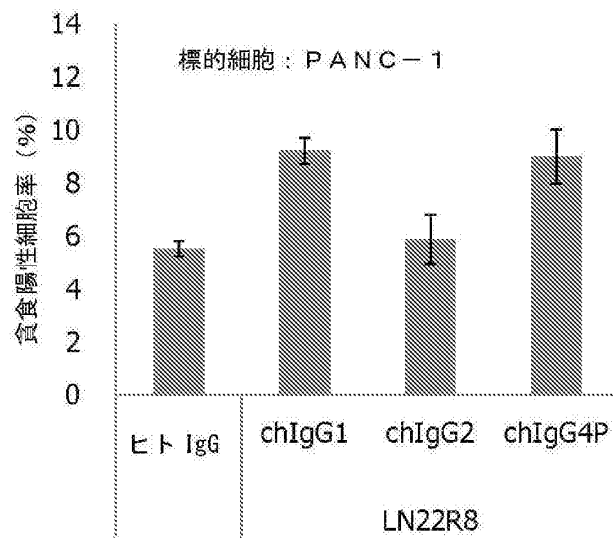


[図7]

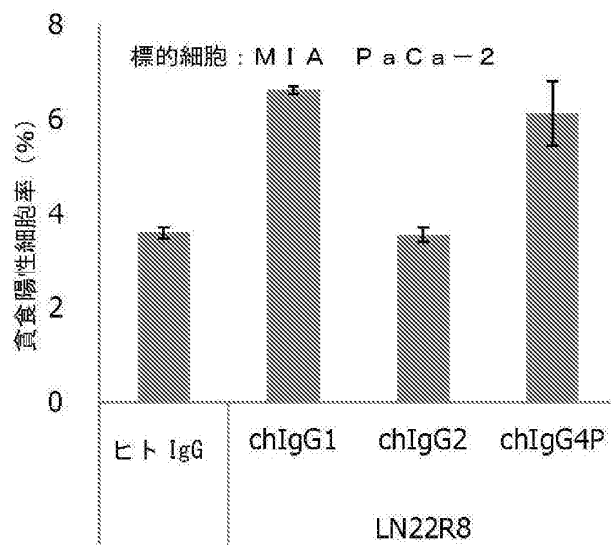


[図8]

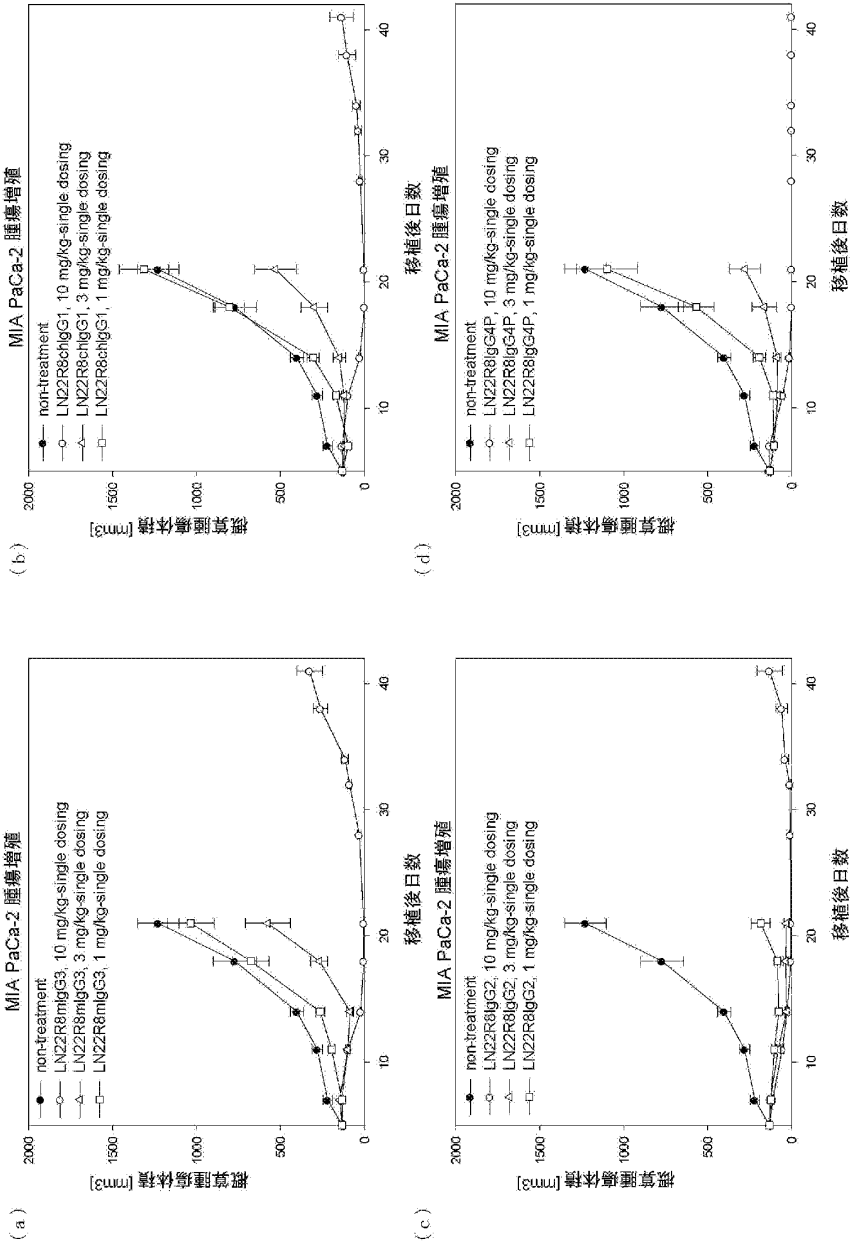
(a)



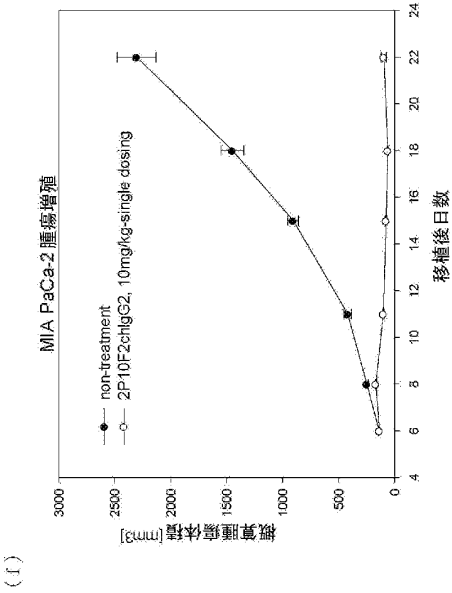
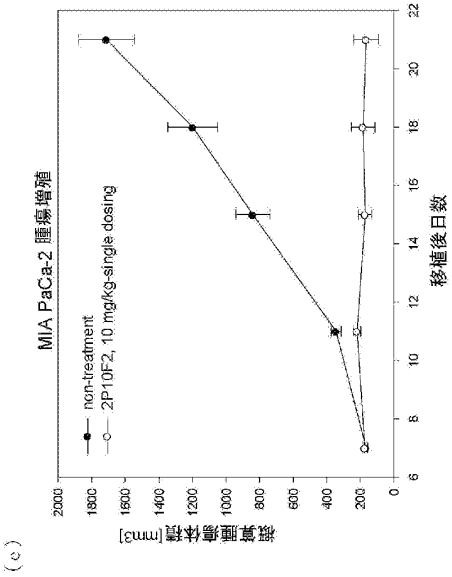
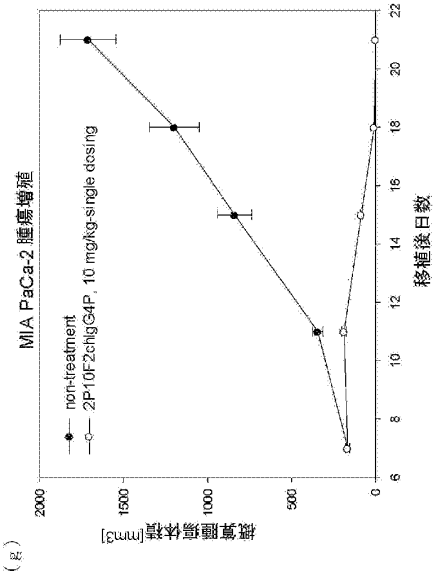
(b)



[図9-1]

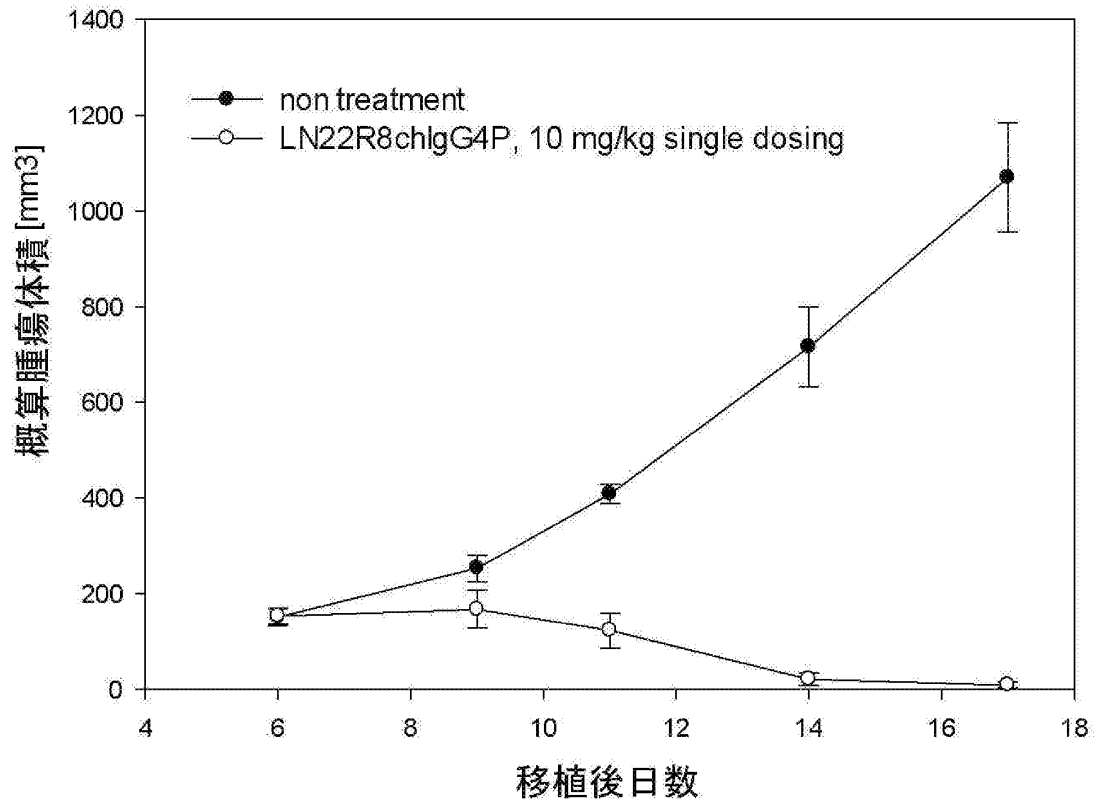


[図9-2]

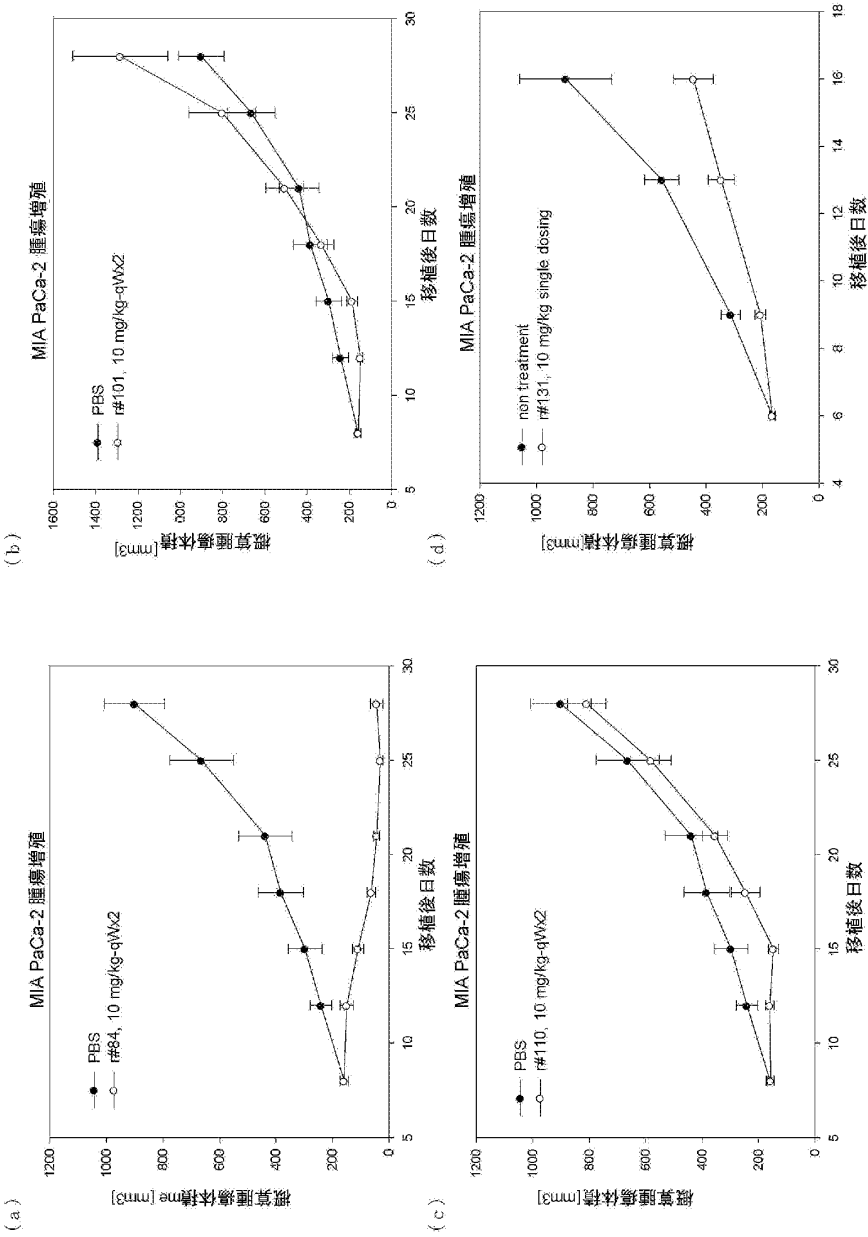


[図10]

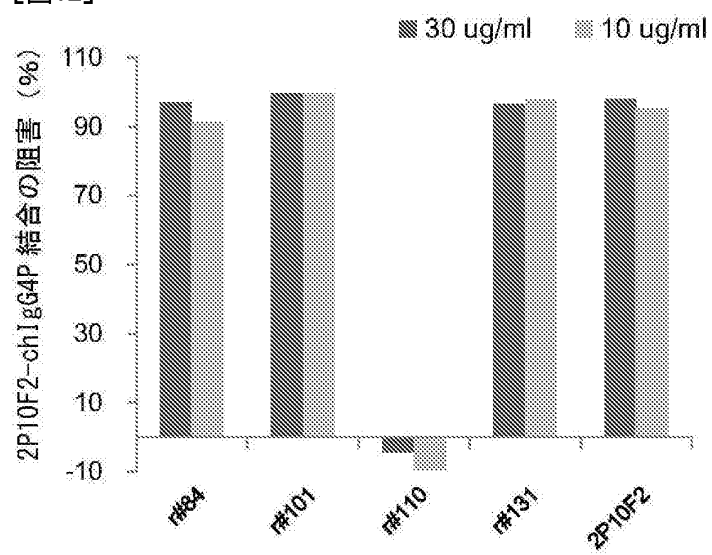
NOG マウスにおける MIA PaCa-2 腫瘍増殖



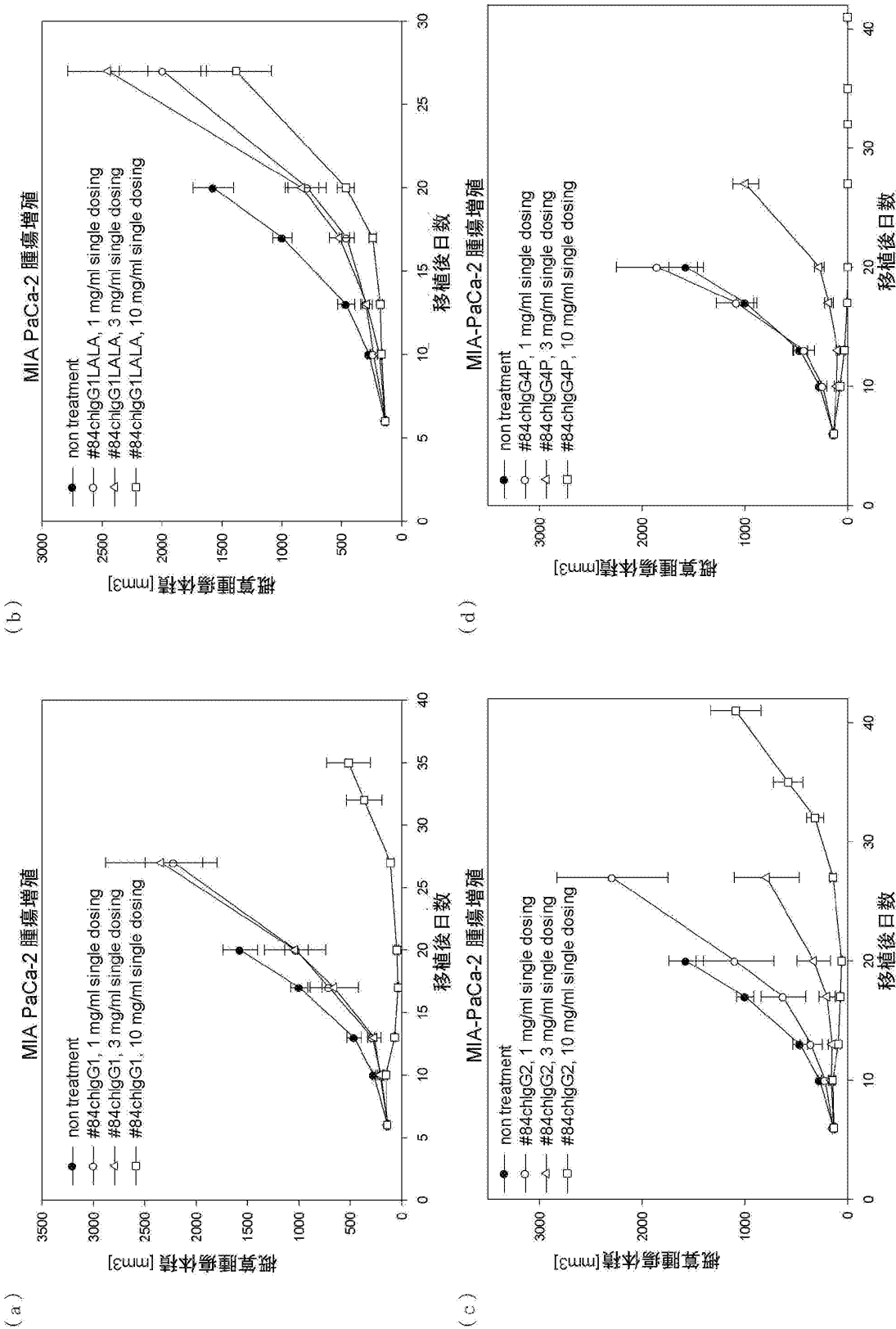
[図11]



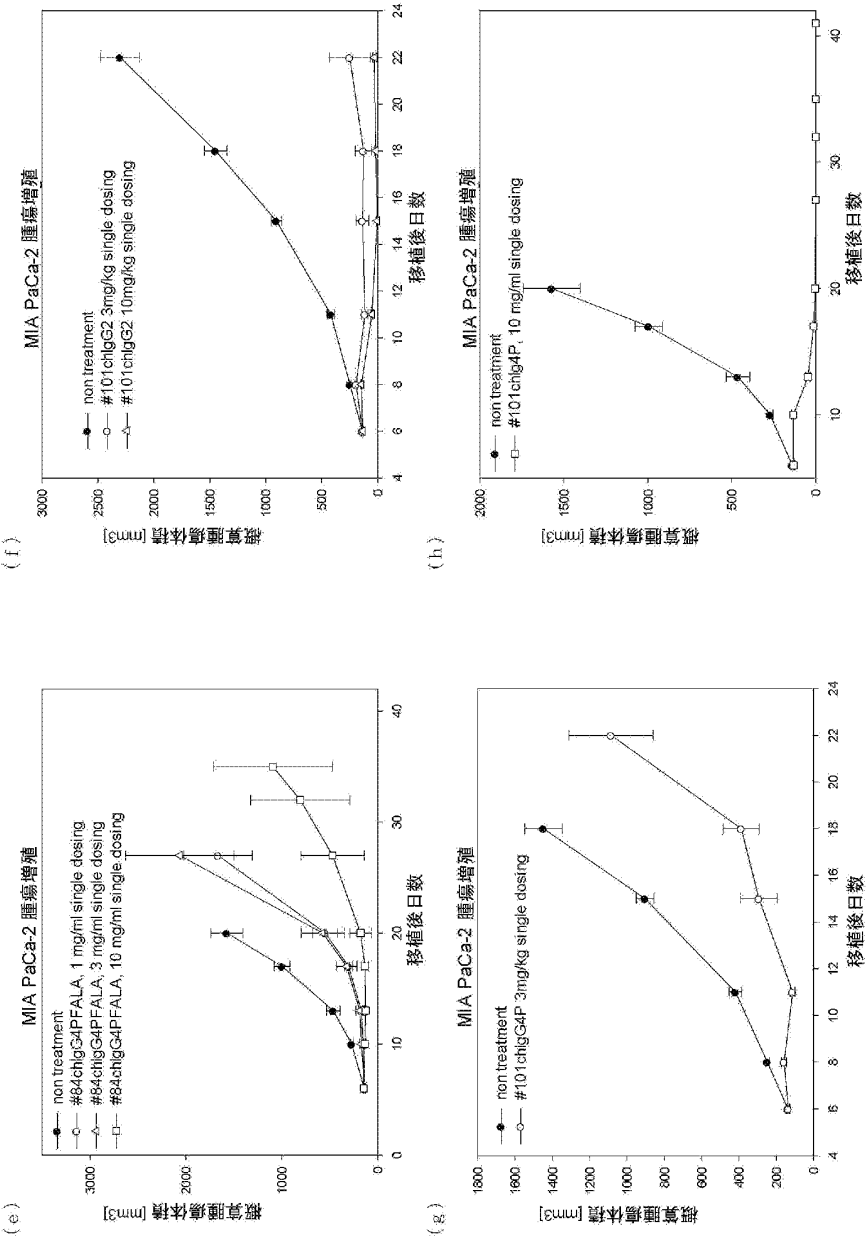
[図12]



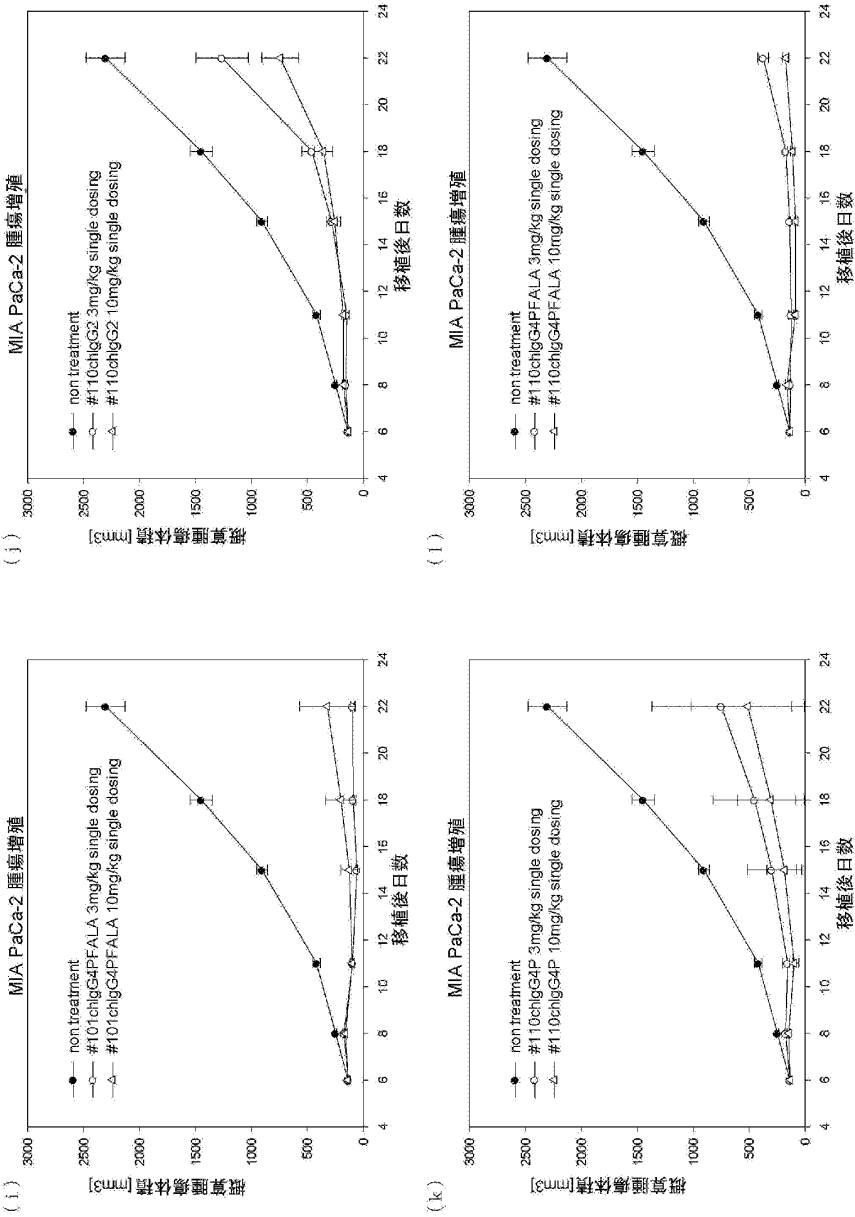
[図13-1]



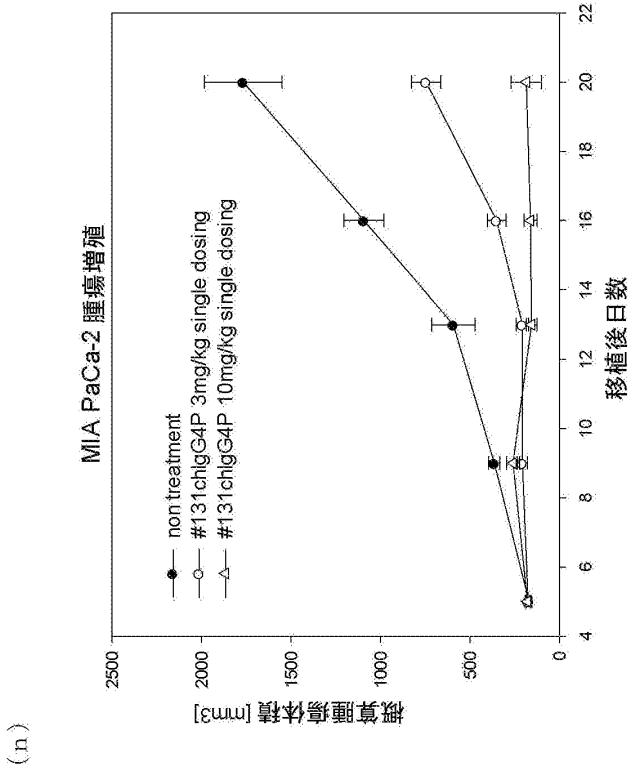
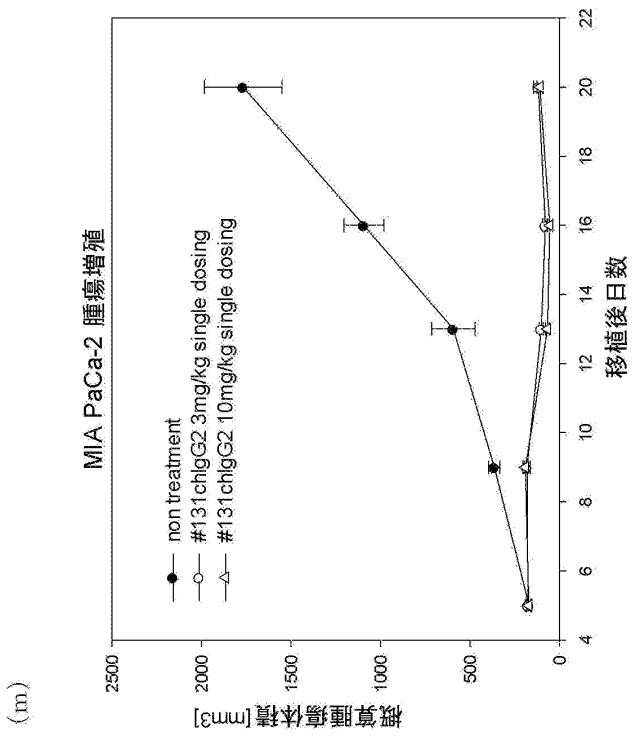
[図13-2]



[図13-3]



[図13-4]



[図14]

(a) # 8 4 H 1 h の可変領域の設計

rat_CD147_#84 HC	1	EVQLVESGGGLVQPGRSLKLSCAASGFTFSNYYMAWVRQAPKKGLEWVATITTSGSRPYY	60
#84H1h	1	G...R.....G.....S.....	60
rat_CD147_#84 HC	61	PDSVKGRFTISRDNAXSSLYLQMNSLKSEDTATYYCARHLYYYDGYPPAYWGQGLVTVS	120
#84H1h	61	A.....S.NT.....RA...V.....	120
rat_CD147_#84 HC	121	S	121
#84H1h	121	.	121

(b) # 8 4 L 2 h の可変領域の設計

rat_CD147_#84 LC	1	DVQMTQSPSYLAASPGESVSIACKASKGISNNLAWYQKPKGKANKLLIHSGSTLQSGTFS	60
#84L2h	1	S.S...V.DR.T.T.....Q.....	60
rat_CD147_#84 LC	61	RFGSGSGGTDFTLTIRSLFEDFAVYYCQYNEYPLTFGSGTKLEIKR	108
#84L2h	61	S...QP....T.....Q...V....	108

[図15]

(a) # 1 0 1 H 1 h の可変領域の設計

rat_CD147_#101 HC	1	EVQLVESDGLVQPGRSLKLSCAASGFTFSNYYMAWVRQAPTKGLEWVATISYDGSNTYY	60
#101H1h	1	G.....R.....G.....	60
rat_CD147_#101 HC	61	RDSVKGRFTISRDNAXSTLYLQMDSLRSGDTATYYCARFYNNYYFDYWGQGVMTVSS	118
#101H1h	61	S.....N...A...V.....TL.....	118

(b) # 1 0 1 L 2 h の可変領域の設計

rat_CD147_#101 LC	1	DIQMTQSPSLLSASVGGRTLNCKASQNTYKNLAWYQQKLGEPKLLIDNANSLQTGIPS	60
#101L2h	1	S.....D.V.I.....P.K.....	60
rat_CD147_#101 LC	61	RFGSGSGGTDFTLTISLQPEDVATYFCQYYSGSYTFGAGTKLEIKR	108
#101L2h	61	F.....Q...V.I..	108

[図16]

(a) # 1 1 0 H 1 h の可変領域の設計

rat_CD147_#110 HC	1	QVQLQQSGAELVKPGSSVKISCKASGYTFTSDFMHWIKQQPGNGLEWIGWIYPGDGDTEY	60
#110H1h	1	V....VK...A...V.....VR.A..Q....M.....	60
rat_CD147_#110 HC	61	NQKFNGKATLTADKSSSTAYMQLSSLTSEDSAVYFCARGRGYVMDAWGQGASVTVSS	117
#110H1h	61	Q.RV...R.T.I.....E..R.R.D.T...Y.....TT.....	117

(b) # 1 1 0 H 1 3 h の可変領域の設計

rat_CD147_#110 HC	1	QVQLQQSGAELVKPGSSVKISCKASGYTFTSDFMHWIKQQPGNGLEWIGWIYPGDGDTEY	60
#110H13h	1	V....VK...A...V.....VR.A..Q....M.....	60
rat_CD147_#110 HC	61	NQKFNGKATLTADKSSSTAYMQLSSLTSEDSAVYFCARGRGYVMDAWGQGASVTVSS	117
#110H13h	61	A...Q.RV.M.R.T.I.....E..R.R.D.T...Y.....TT.....	117

(c) # 1 1 0 L 4 h の可変領域の設計

rat_CD147_#110 LC	1	DIQMTQTPSSMPASLGERTVISCASQGISNYLNWYQQKPDGTIKPLIYYTSNLQSGVPS	60
#110L4h	1	S...LS..V.D....T.....GKA.....	60
rat_CD147_#110 LC	61	RFSGSGSGTDYSLTISSELPEDFAMYFCQQYDSSPRTFGGGTKLELKR	108
#110L4h	61	T.....Q.....T.....V.I..	108

(d) # 1 1 0 L 2 h の可変領域の設計

rat_CD147_#110 LC	1	DIQMTQTPSSMPASLGERTVISCASQGISNYLNWYQQKPDGTIKPLIYYTSNLQSGVPS	60
#110L2h	1	S...LS..V.D....T.....GKAP.....	60
rat_CD147_#110 LC	61	RFSGSGSGTDYSLTISSELPEDFAMYFCQQYDSSPRTFGGGTKLELKR	108
#110L2h	61	T.....Q.....T.Y.....V.I..	108

(e) # 1 1 0 L 1 2 h の可変領域の設計

rat_CD147_#110 LC	1	DIQMTQTPSSMPASLGERTVISCASQGISNYLNWYQQKPDGTIKPLIYYTSNLQSGVPS	60
#110L12h	1	S...LS..V.D....T.....GKAP.....	60
rat_CD147_#110 LC	61	RFSGSGSGTDYSLTISSELPEDFAMYFCQQYDSSPRTFGGGTKLELKR	108
#110L12h	61	FT.....Q.....T.Y.....V.I..	108

[図17]

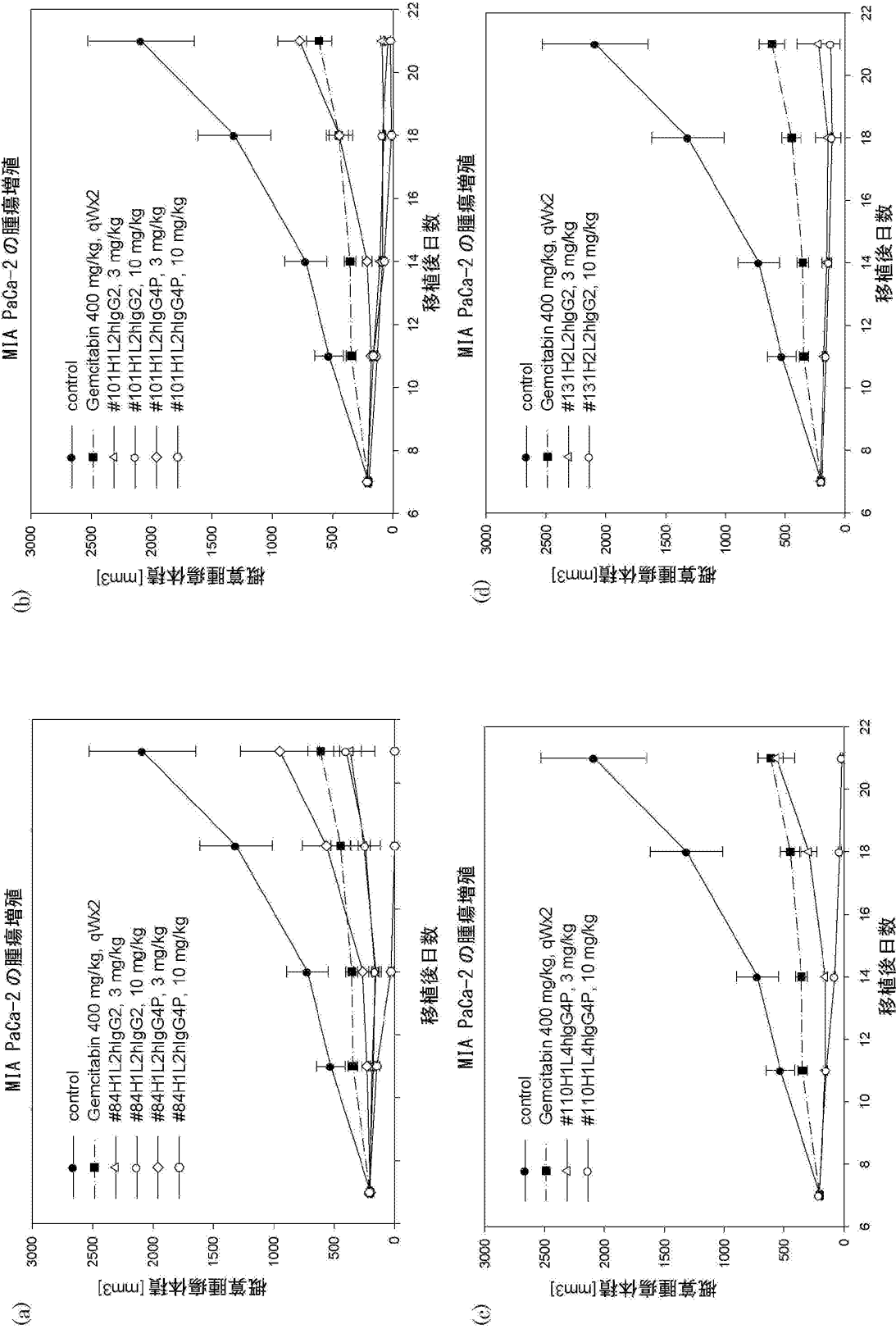
(a) # 1 3 1 H 2 h の可変領域の設計

rat_CD147_#131 HC	1	EVQLVESGGGLVQPGRLSLKSCASGFTFNYYWMTWVRQAPGKGLEWVASITKAGGSTYY	60
#131H2h	1	Q.....V.....R...A.....	60
rat_CD147_#131 HC	61	RDSVKGRFTISRDNASTLYLQMNSLRSEDTATYYCTRELGEFYVMDAWGQGASVTVSS	119
#131H2h	61	A.....S.....A.G..V.....TT.....	119

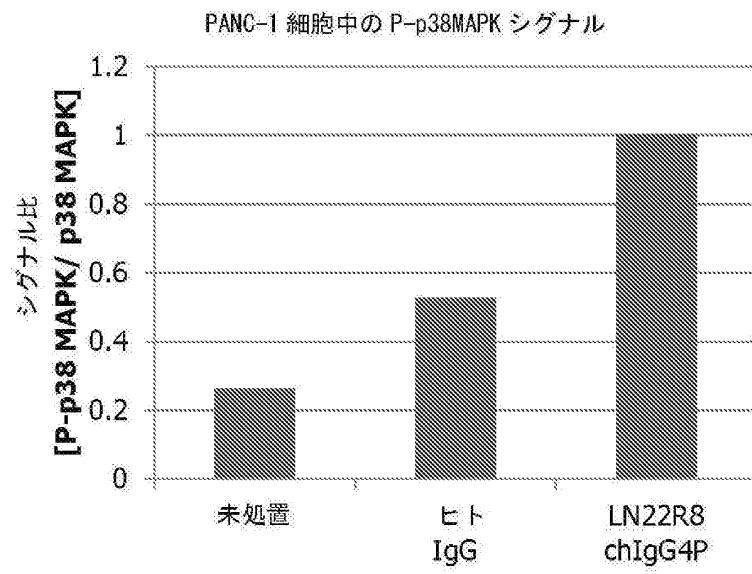
(b) # 1 3 1 L 2 h の可変領域の設計

rat_CD147_#131 LC	1	DVQMTQSPSYLAASPGESVSIKASKSINTYLAWEKPKGTNKLIIYSGSTLQSGTPS	60
#131L2h	1	S..S..V.DR.T.....	60
rat_CD147_#131 LC	61	RFSGSGSGTDFTLTIRSLPEDFAVYCCQHNEYPFTFGSGTKLEIKR	108
#131L2h	61	S..Q.....T.....	108

[図18]

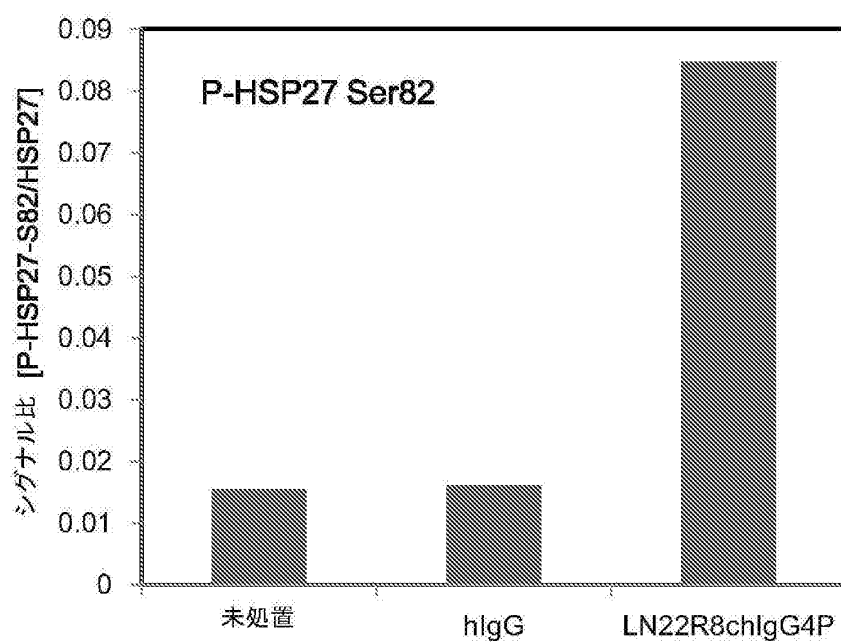


[図19]

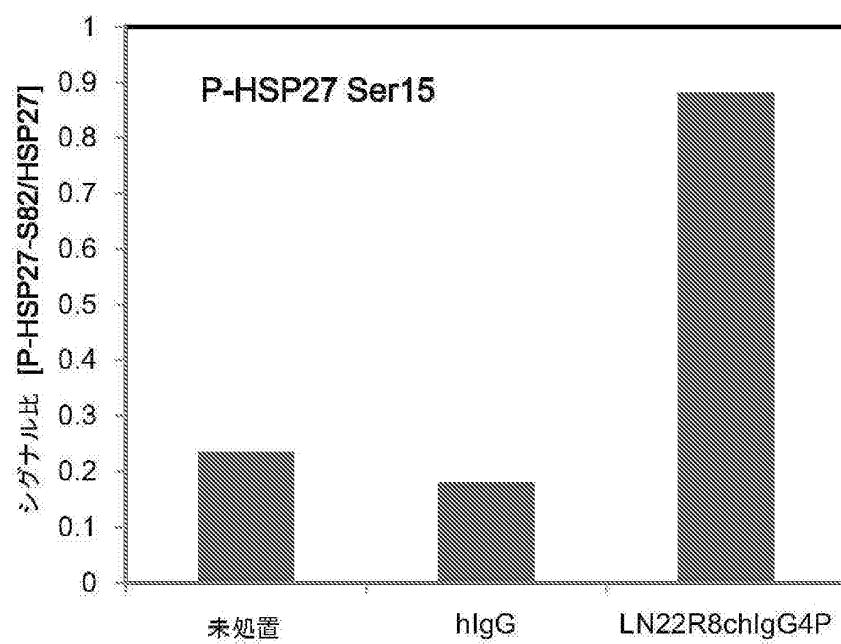


[図20]

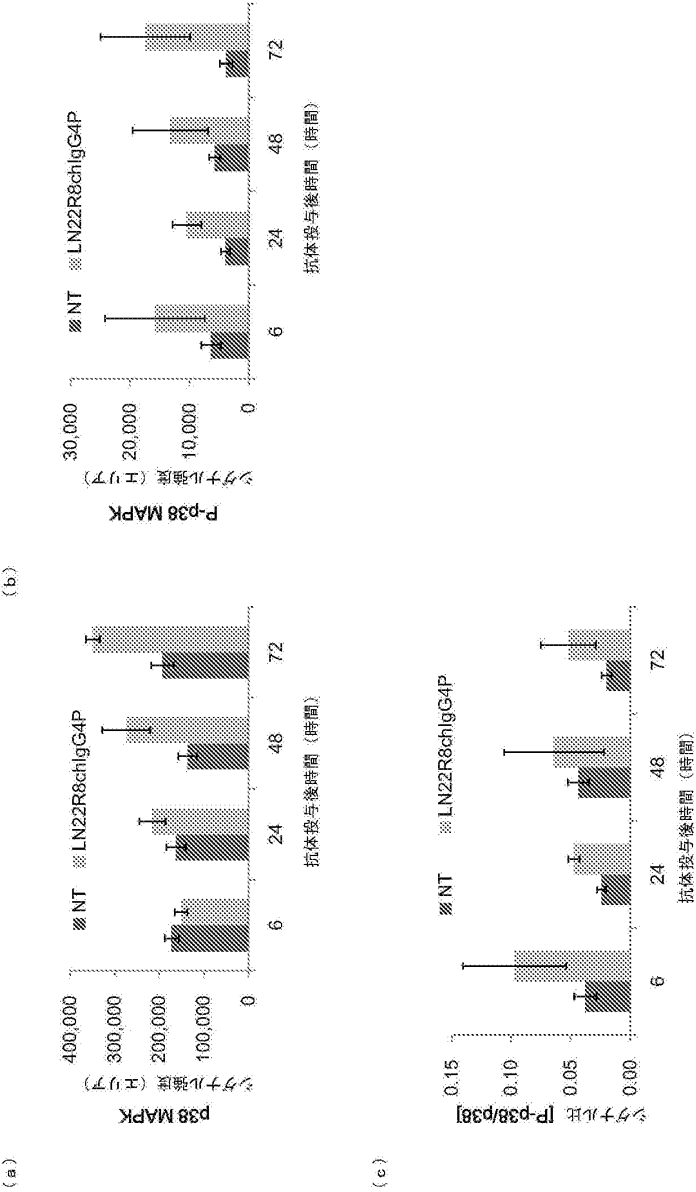
(a)



(b)

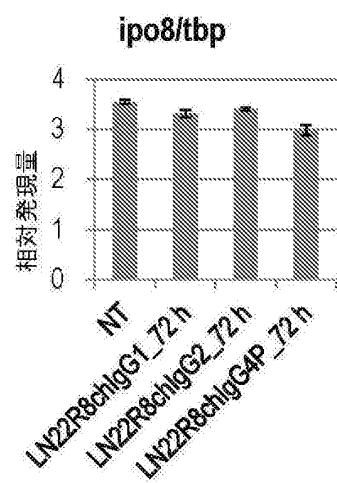


[図21]

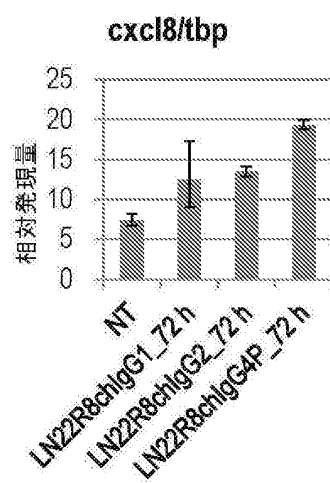


[図22]

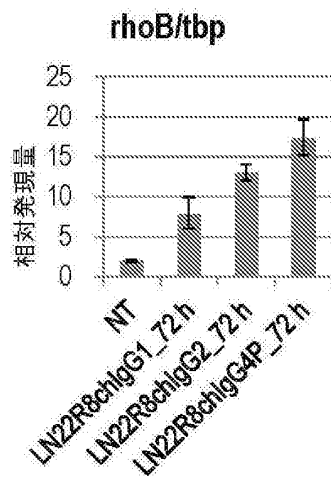
(a)



(b)

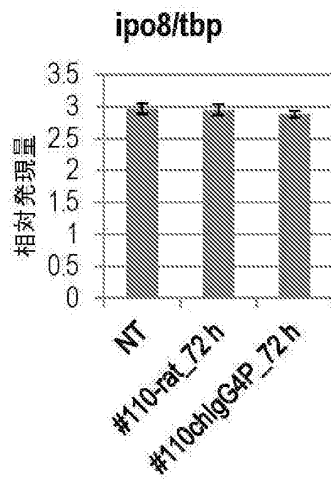


(c)

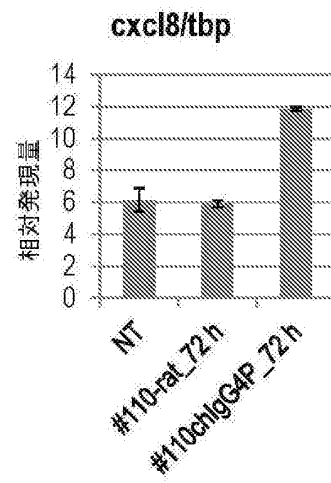


[図23]

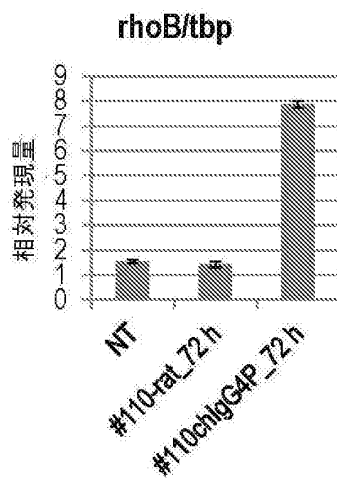
(a)



(b)

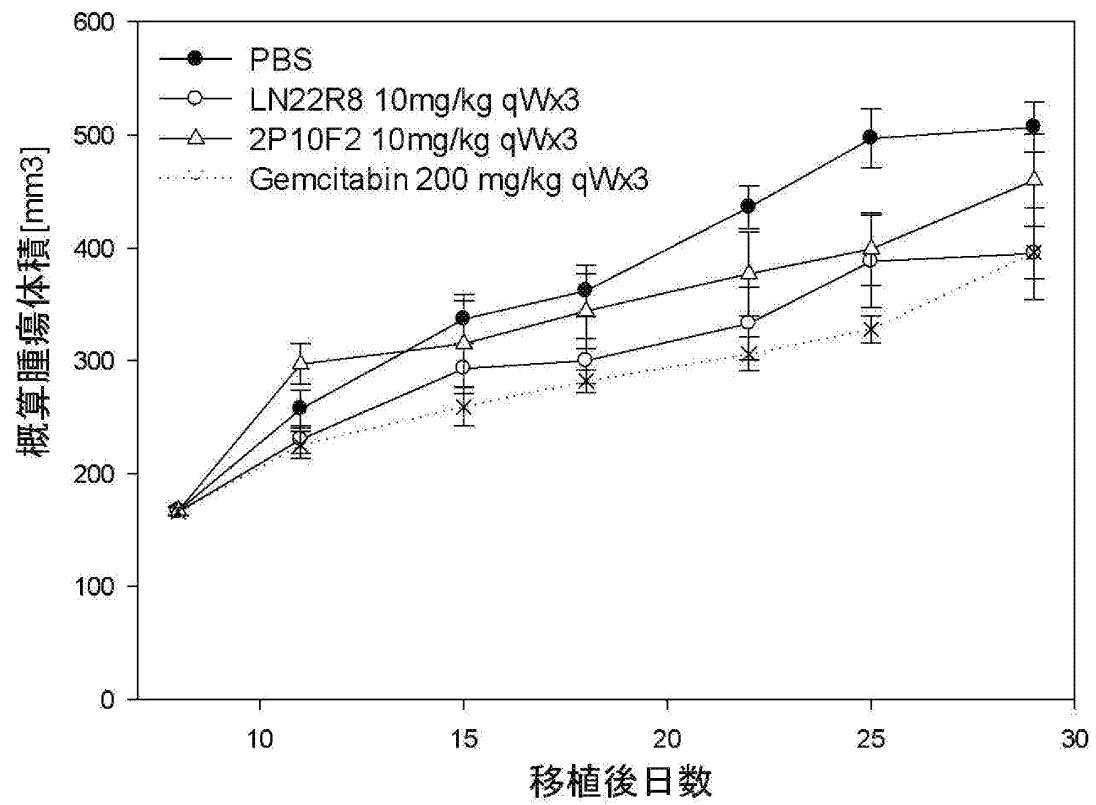


(c)



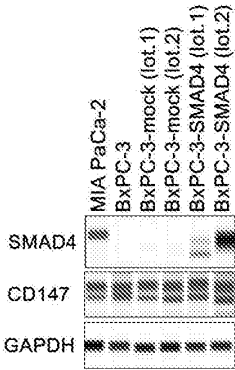
[図24]

BxPC-3 腫瘍増殖

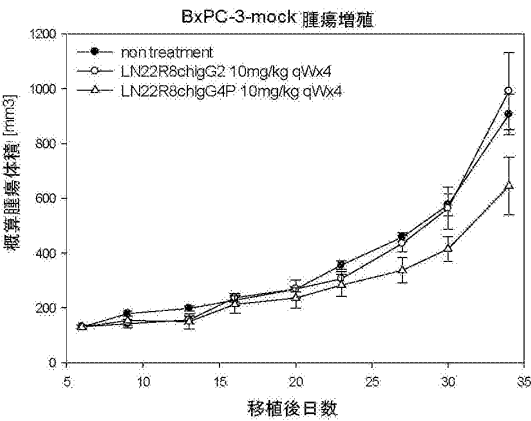


[図25]

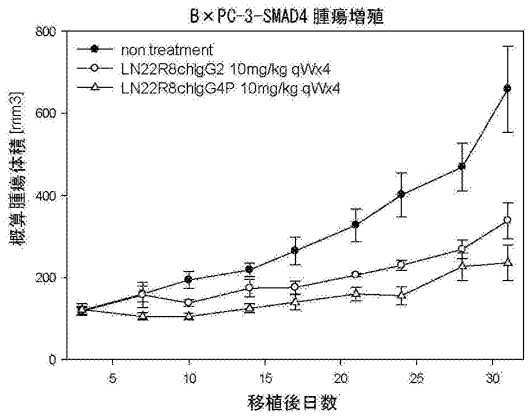
(a)



(b)

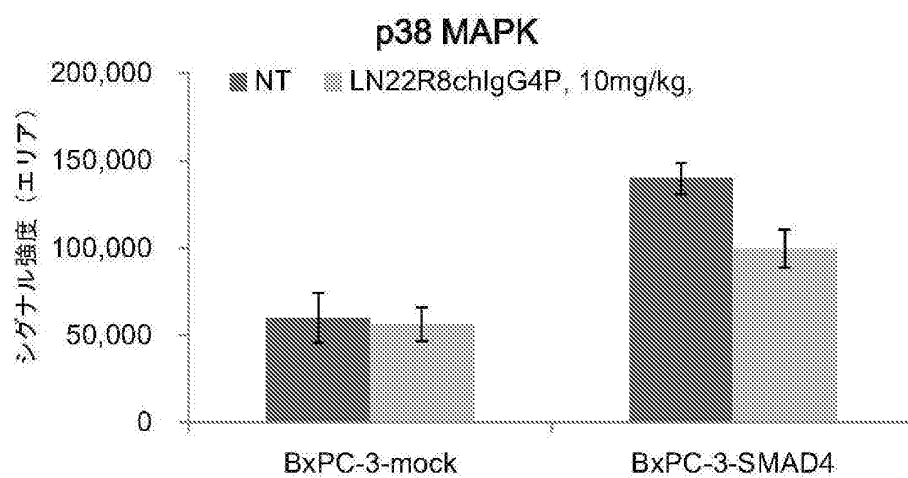


(c)

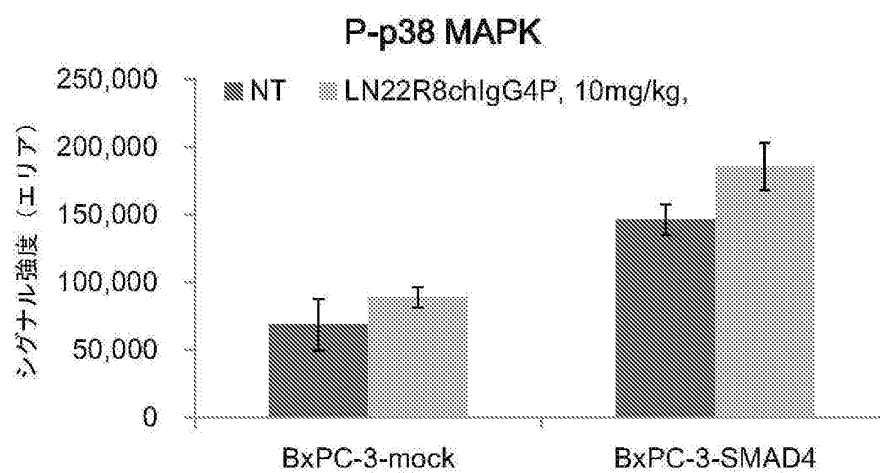


[図26]

(a)

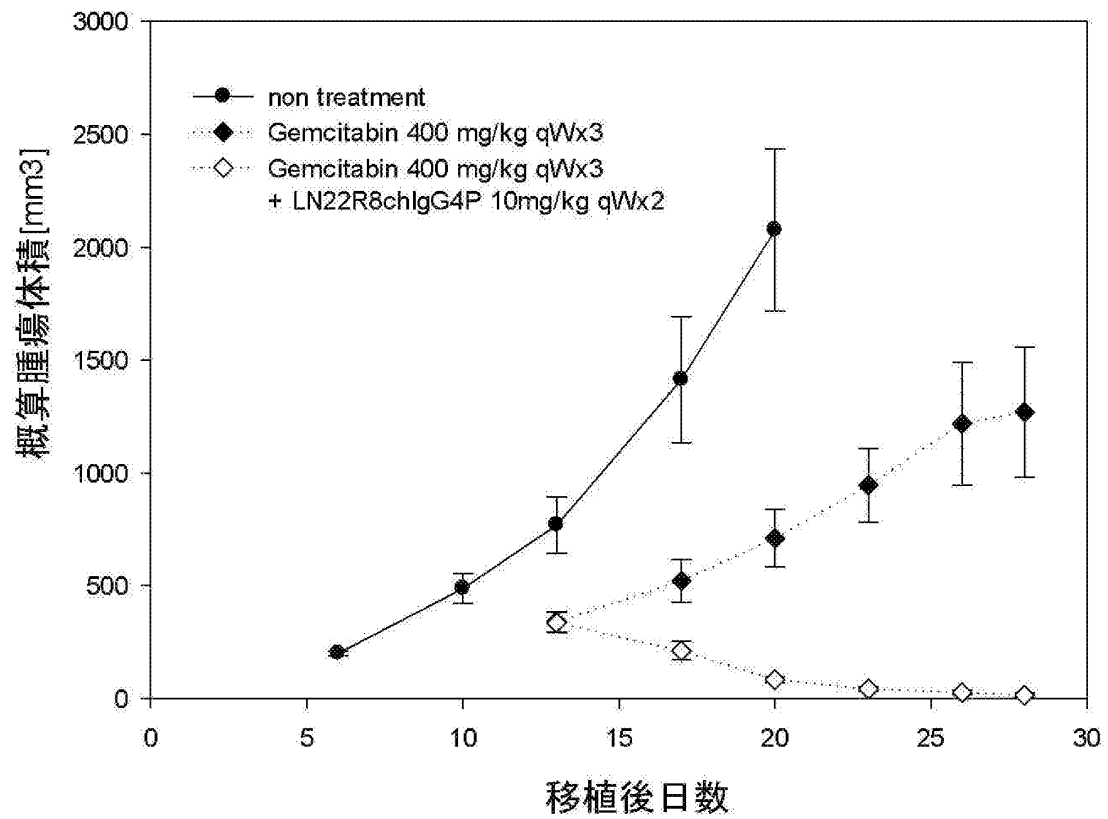


(b)



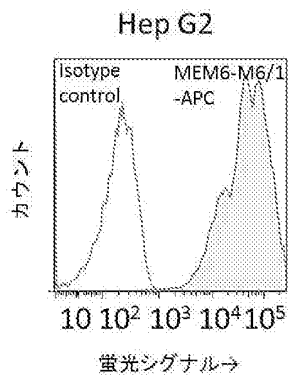
[図27]

MIA PaCa-2 腫瘍増殖

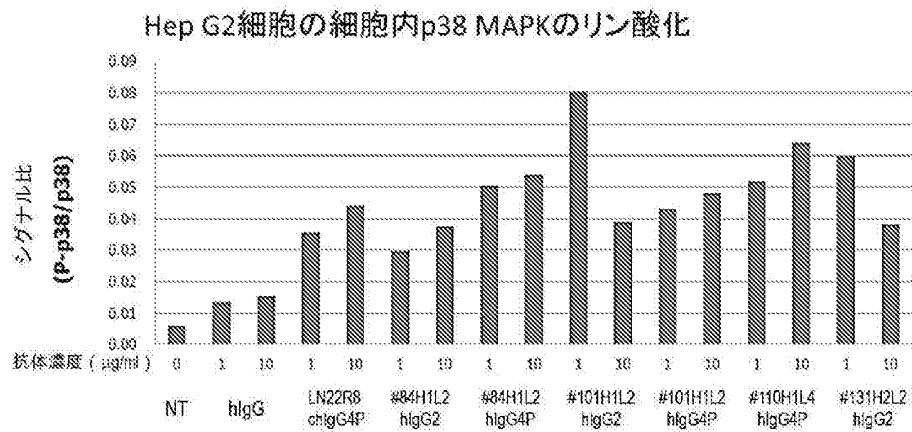


【図28】

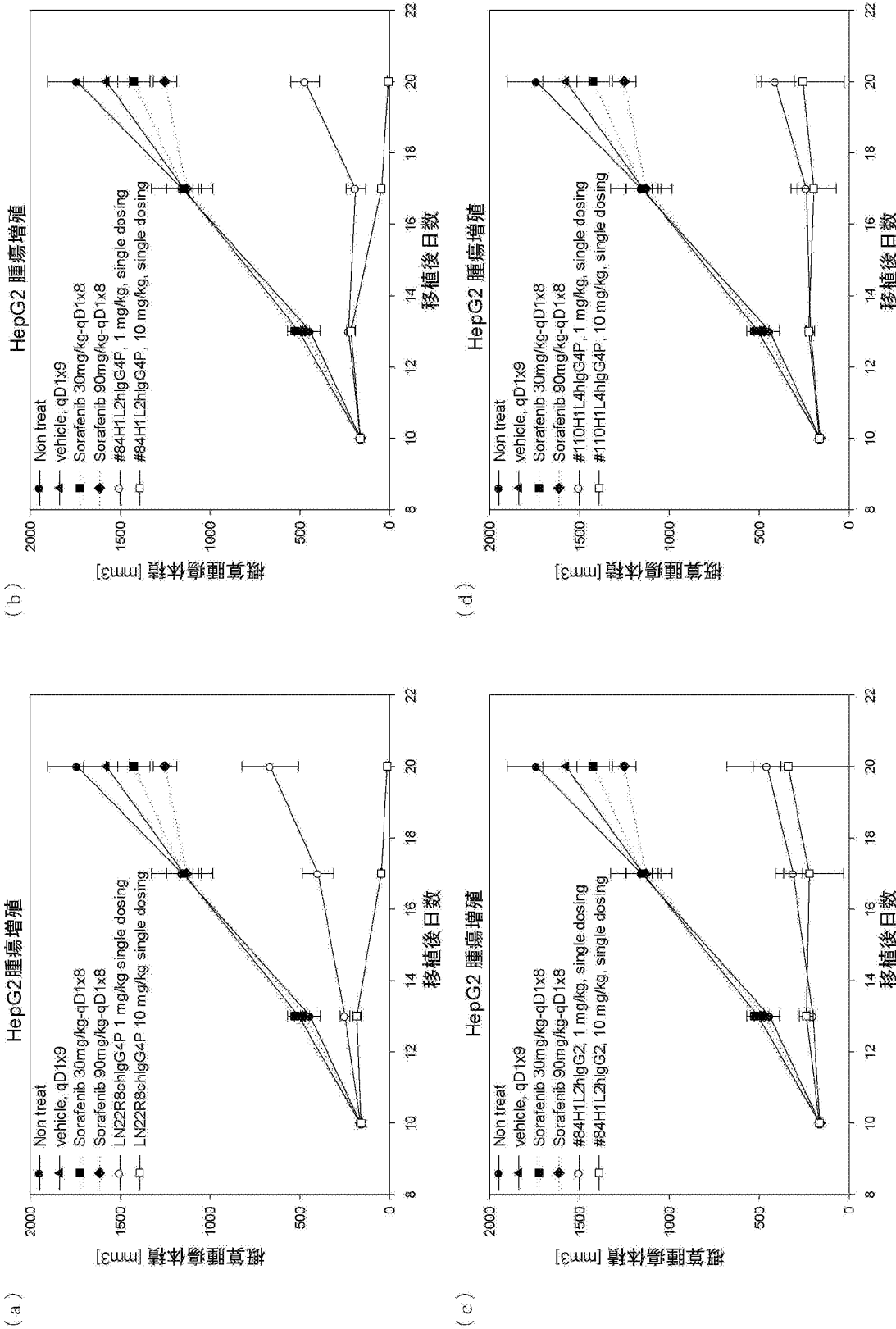
(a)



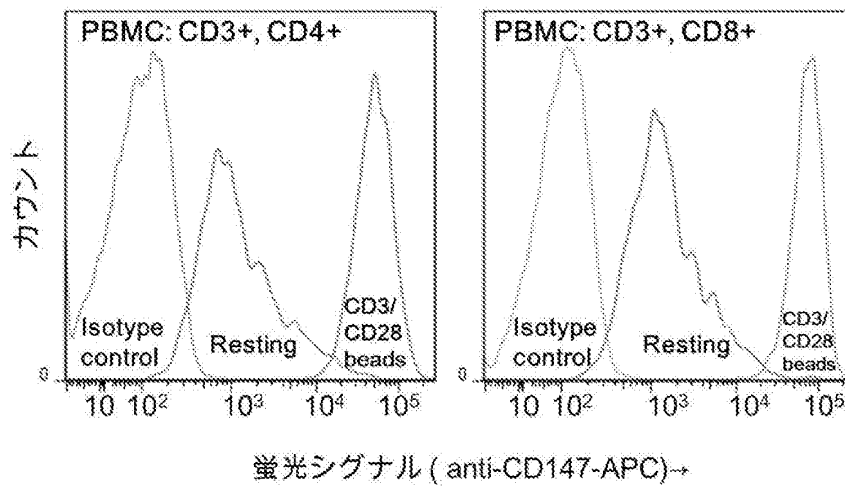
(b)



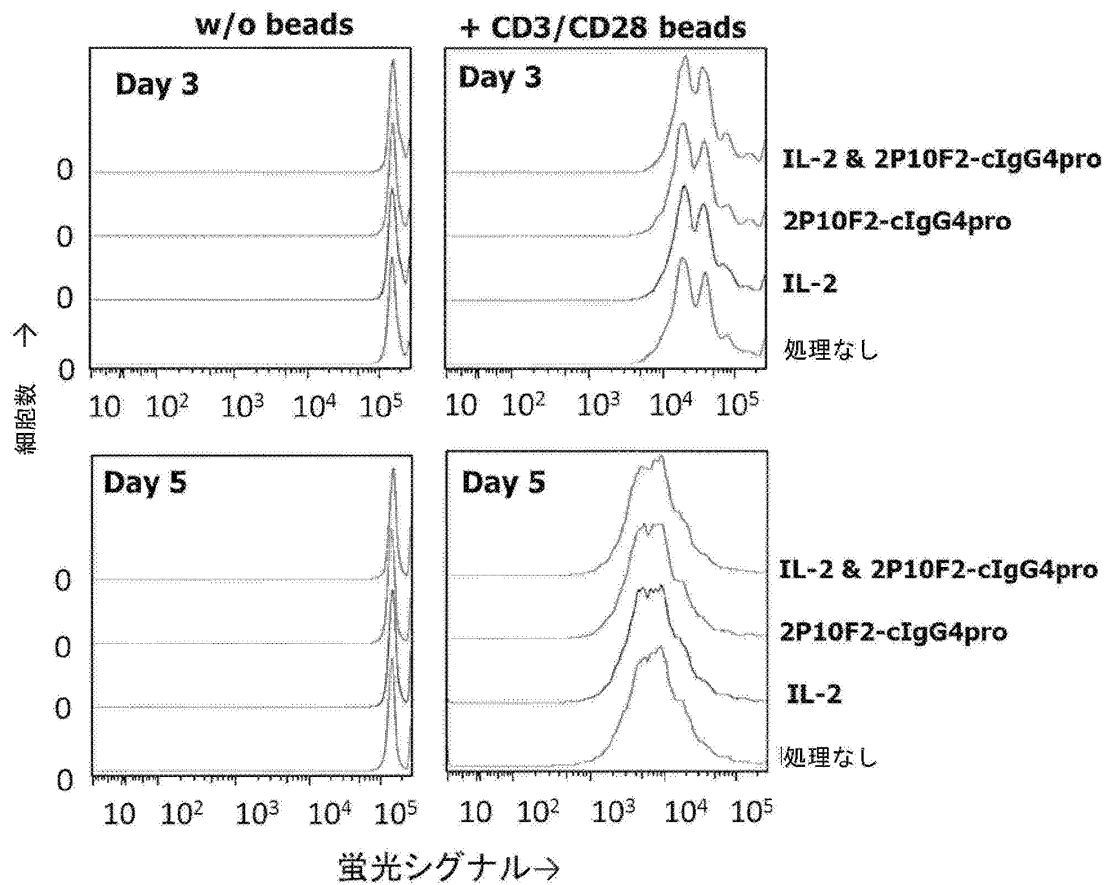
[図29]



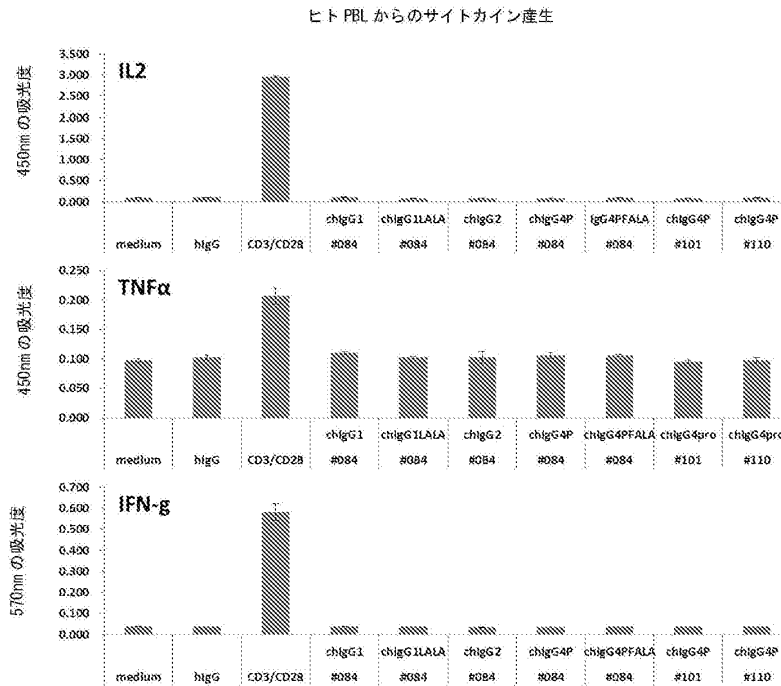
[図30]



[図31]



[図32]



[図33-1]

配列番号 48 : rat_CD147_#84 の軽鎖の可変領域のヌクレオチド配列

GATGTCCAGATGACCCAGTCTCCATCTTATCTTGCTGCTCTCCTGGAGAAAGTGTTCATCAGTTGCAAGGCAAGTAAGAGCATTAGCAATAA
 TTTAGCCTGGTATCAGGAGAAACCTGGGAAAGCAAATAAGCTTCTTATTCACTCTGGGTCAACCTTTGCAATCTGGAACCTCCATCGAGGTTCAAGT
 GCAGTGGATCTGGTACAGATTTACGCTCACCATCAGAAGCCTGGAGTTTGAAGATTTGCAGTCTATTACTGTCAACAGTATAATGAATACCCA
 CTCAGTTCTGGTTCTGGGACCAAGCTGGAGATCAAACGG

配列番号 49 : rat_CD147_#84 の軽鎖の可変領域のアミノ酸配列 (各 CDR に下線)

DVQMTQSPSYLAASPGESVSI SCKASKSI SNNLA WYQEKPGKANKLLI HSGSTLQSGTPSRFSGSGSGTDFTLTIRSLFEFDFVYYCQYNEYPL
 LTFGSGTKLEIKR

配列番号 52 : rat_CD147_#84 の CDRL1 のアミノ酸配列

KASKSI SNNLA

配列番号 53 : rat_CD147_#84 の CDRL2 のアミノ酸配列

SGSTLQS

配列番号 54 : rat_CD147_#84 の CDRL3 のアミノ酸配列

QQYNEYPLT

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[図33-2]

配列番号50: rat__CD147__#84の重鎖の可変領域のヌクレオチド配列

GAGGTGCAGCTGGTGGAGTCTGGGGGAGGCCTAGTGCAGCCTGGAAGGTCCCTGAACTCTCCTGTGCAGCCTCAGGATTCACCTTCAGTAAGTA
 TTACATGGCCTGGGTCCGCCAGGCTCCAAAGAAGGGTCTGGAGTGGGTGCGAACCATTACTACCACTGGTAGCAGACCTTACTATCCAGACTCCG
 TGAAGGCCGATTCACTATCTCCAGAGATAATGCAAAAAGCAGCCTATACCTGCAAAATGAACAGTCTGAAGTCTGAGGACACGGCCACTTATTAC
 TGTGCAAGACATATTTACTATGATGGTTAGCCCTTTGCTTACTGGGGCCAAGGCACTCTGGTCACTGTCTTCA

配列番号51: rat__CD147__#84の重鎖の可変領域のアミノ酸配列 (各CDRに下線)

EVQLVESGGGLVQPGKSLKLSAASGFTFSNYMAWVRQAPKKGLEWVATITTSGRPYYPDSVKGRFTISRDNKSSLYLQMNLSKSEDATYY
 CARHIYYDGYPFAYWGQGLTVTVSS

配列番号55: rat__CD147__#84のCDRH1のアミノ酸配列

GFTFSNYMA

配列番号56: rat__CD147__#84のCDRH2のアミノ酸配列

TITTSGRPY

配列番号57: rat__CD147__#84のCDRH3のアミノ酸配列

HIYYDGYPFAY

[図34-1]

配列番号58: rat__CD147__#101の軽鎖の可変領域のヌクレオチド配列

GAGATCCAGATGACCCAGTCTCCTTCACTCCTGTCTGCATCTGTGGGAGGCAGAACTCACTCTCAACTGCAAAGCAAGTCAGAATCTCTATAAGAA
 CTTAGCCTGGTATCAGCAGAAGCTTGAGAAAGCTCCAAACTCCTGATTGATAATGCAAACAGTTTGCAAACGGGCATCCCATCAAGGTTCAAGTG
 GCAGTGGATCTGGTACAGATTTCAGACTCACCATCAGCAGCCTGCAGCCTGAAGATGTTGCCACATATTTCTGCCAGCAGTATTATAGCGGGTCG
 TACACGTTTGAGAGCTGGGACCAAGCTGGAACGAAACGG

配列番号59: rat__CD147__#101の軽鎖の可変領域のアミノ酸配列 (各CDRに下線)

DIQMTQSPSLLSASVGRITLNCKASQNLKLAWYQQKLGEPKLLIDNANSLQTGIPSRFSGSGSGTDFTLTISLQPEDVATYFCQQYYSGS
 YTFGAGTKLELKR

配列番号62: rat__CD147__#101のCDRL1のアミノ酸配列

KASQNLKLA

配列番号63: rat__CD147__#101のCDRL2のアミノ酸配列

NANSLQT

配列番号64: rat__CD147__#101のCDRL3のアミノ酸配列

QQYYSGSYT

[図34-2]

配列番号60: rat__CD147__#101の重鎖の可変領域のヌクレオチド配列

GAGGTGCAGCTGGTGGAGTCTGATGGAGGCTAGTGCAGCCTGGAAGGTCCCTAAACTCTCCTGTGCAGCCTCAGGATTCACCTTCAGTGACTA
 TTACATGGCCTGGGTCCGCCAGGCTCCAACGAAGGGGCTGGAGTGGGTGCGAACCATTAGTTATGATGGTAGTAACACTTACTATCGAGACTCCG
 TGAAGGGCCGATTCACTATCTCCAGAGATAATGCAAAAAGCACCTATACCTGCAAAATGGACAGTCTGAGGTCTGGGACACGGCCACTTATTAC
 TGTGCAAGATTTACAACAATACTACTTTGATTACTGGGGCCAAGGAGTCATGGTCACAGTCTCCTCA

配列番号61: rat__CD147__#101の重鎖の可変領域のアミノ酸配列 (各CDRに下線)

EVQLVESDGLVQPGKSLKLSAASGFTFSNYMAWVRQAPKKGLEWVATISYDGSNTYYRDSVKGRFTISRDNKSTLYLQMDSLRSGDTATYY
 CARFYNNYYFDYWGQGVMTVSS

配列番号65: rat__CD147__#101のCDRH1のアミノ酸配列

GFTFSNYMA

配列番号66: rat__CD147__#101のCDRH2のアミノ酸配列

TISYDGSNTY

配列番号67: rat__CD147__#101のCDRH3のアミノ酸配列

FYNNYYFDY

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[図35-1]

配列番号68: rat__CD147__#110の軽鎖の可変領域のヌクレオチド配列

GACATCCAGATGACCCAGACTCCATCCTCCATGCCTGCATCTCTGGGAGAGAGAGTACCATCAGTTGCAGAGCAAGTCAGGGTATTAGCAATTA
TCTAAACTGGTATCAGCAGAAACCAGATGGAACGATTAACCCCTGATCTACTACACATCCAATTTACAATCTGGTGTCCCATCAAGGTTCAAGTG
GCAGTGGGTCTGGGACAGATTATTCTCTCACCATCAGCAGCCTGGAGCCTGAAGATTTTGAATGTATTTCTGCCAACAGTATGATAGTTCTCCT
CGGACGTTGGGTGGAGGCACCAAGCTGGAATTGAAACGG

配列番号69: rat__CD147__#110の軽鎖の可変領域のアミノ酸配列 (各 CDR に下線)

DIQMTGPSSMPASLGERVTISCRASQGISNYLNWYQQKPDGTIKPLIYYTSLNLSGVPSRFSGSGSGTDYSLTISSELEPEDFAMFYCQQYDSSP
RTFGGGTKLELKR

配列番号72: rat__CD147__#110のCDRL1のアミノ酸配列

RASQGISNYLN

配列番号73: rat__CD147__#110のCDRL2のアミノ酸配列

YTSNLQS

配列番号74: rat__CD147__#110のCDRL3のアミノ酸配列

QQYDSSPRT

[図35-2]

配列番号70: rat__CD147__#110の重鎖の可変領域のヌクレオチド配列

CAGGTACAGCTGCAGCAATCTGGGGCTGAACCTGGTGAAGCCTGGGTCTCAGTGAAAAATTTCTGCAAGGCTTCTGGCTACACCTTCACCAAGTGA
CTTTATGCACCTGGATAAAACAGCAGCCTGGAAATGGCCTTGAGTGGATTGGGTGGATTATCCTGGAGATGGTGATACAGAGTACAATCAAAAGT
TCAATGGGAAGGCAACACTCACTGCAGACAAATCCTCCAGCAGCCTATATGCAGCTCAGCAGCCTGACATCTGAGGACTCTGCAGTCTATTTCT
TGTCAAGGGGACGGGGTATGTTATGGATGCCTGGGGTCAAGGAGCTTCAGTCACTGTCTCTCA

配列番号71: rat__CD147__#110の重鎖の可変領域のアミノ酸配列 (各 CDR に下線)

QVQLQQSGAELVKPSSVKISCKASGYFTSDFMHWIKQQPGNGLEWIGWIYPGDGDEYNQKFNGKATLTADKSSSTAYMQLSSLTSEDSAVYF
CARGRGYVMDAWGGGASVTSS

配列番号75: rat__CD147__#110のCDRH1のアミノ酸配列

GYFTSDFMH

配列番号76: rat__CD147__#110のCDRH2のアミノ酸配列

WIYPGDGDE

配列番号77: rat__CD147__#110のCDRH3のアミノ酸配列

GRGYVMDA

[図36-1]

配列番号78: rat__CD147__#131の軽鎖の可変領域のヌクレオチド配列

GATGTCCAGATGACCCAGTCTCCATCTTATCTTGCTGCGTCTCCTGGAGAAAGTGTTCATCAGTTGCAAGGCAAGTAAAGCATTAAACACATA
CTTAGCCTGGTATCAGGAGAAACCTGGGAAAACGAATAAGCTTCTTATCTACTCTGGGTCAACTTTGCAATCTGGAACCTCCATCGAGATTCAGTG
GCAGTGGATCTGGTACAGATTTACGCTCACCATCAGAAAGCCTGGAGCCTGAAGATTTTGCAGTCTACTACTGTCAACAGCATAATGAATACCCC
TTCACGTTCCGCTCAGGGACGAAGTTGGAATAAAACGG

配列番号79: rat__CD147__#131の軽鎖の可変領域のアミノ酸配列 (各 CDR に下線)

DVQMTQSPSYLAASPGESVSI¹CKASKSINTYLA²WYQEKGPKTNKLLI³YSGSTLQSGT⁴PSRFSGSGSGTDFTLT⁵IRSLPEPDAFYVY⁶CQHNEY⁷P
FTFGSGTKLEIKR

配列番号82: rat__CD147__#131のCDRL1のアミノ酸配列

KASKSINTYLA

配列番号83: rat__CD147__#131のCDRL2のアミノ酸配列

SGSTLQS

配列番号84: rat__CD147__#131のCDRL3のアミノ酸配列

QQHNEYPT

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[図36-2]

配列番号 80 : rat__CD147__#131 の重鎖の可変領域のヌクレオチド配列

GAGGTGCAGCTGGTGGAGTCTGGGGGAGGCCTAGTGCAGCCTGGAAGGTCTCTGAACTATCCTGTGGAGCCTCTGGATTACATTCAATACTA
CTGGATTGACCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTTCATCCATTACTAAAGCTGGTGGTAGCACTTACTATCGAGACTCTG
TGAAGGCCGATTCACTATCTCCAGAGATAATGCAAAAAGCACCCCTATATCTGCAAAATGAACAGTCTGAGGTCTGAGGACACGGCCACTTATTAC
TGACAAAGAGAAGTGGGAGGTCTATGTTATGGATGCCTGGGGTCAAGGAGCTTCAGTCACTGTCTCCTCA

配列番号 81 : rat__CD147__#131 の重鎖の可変領域のアミノ酸配列 (各 CDR に下線)

EVQLVESGGGLVQPGKSLKSCGASGFTFNYYWMTVVRQAPGKLEWVASITKAGGSTYYRDSVKGRFTISRDNASTLYLQMNLSRSEDATYTY
CTRELGEFYVMDAWGGQASVTYSS

配列番号 85 : rat__CD147__#131 のCDRH1 のアミノ酸配列

GFTFNYYWMT

配列番号 86 : rat__CD147__#131 のCDRH2 のアミノ酸配列

SITKAGGSTY

配列番号 87 : rat__CD147__#131 のCDRH3 のアミノ酸配列

ELGEFYVMDA

[図37-1]

配列番号 123 : #84H1hIgG2 のアミノ酸配列 (各 CDR に下線)

MKHLWFFLLVAAPRWLVSEVLVESGGGLVQPGSLRLSCAASGFTFSNYYMAWVRQAPGKLEWVSTITSGSRPYADSVKGRFTISRDN
NTLYLQMNLSRAEDTAVYYCARHLYYYDGYPFAYWGGTLVTVSSASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPTVSWNSGALTSGV
HTFPAVLQSSGLYSLSSVTVPSNFGTQTYTCNVDHKPSNTKVDKVERKCCVECPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTVVVDV
SHEDPEVQFNWYVDGVEVHNAKTKPREEQFNSTFRVVSFLTVDHDLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSREEMTKN
QVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPMLDSGSFFLYSKLTVDKSRWQQGNVFSQSVMHLEALHNHYTQKSLSLSPGK
シグナル配列 1~19、可変領域 20~140、定常領域 141~466

配列番号 124 : #84H1hIgG2 のヌクレオチド配列

ATGAAACACCTGTGGTTCTTCCTCCTGCTGGTGGCAGCTCCAGATGGGTGCTGAGCGAAGTGCAGCTGGTTGAGTCTGGCGGAGGAGCTGGTTCA
ACCTGGCGGAAGCCTGAGACTGTCTTGTGCCGCCAGCGGCTTACCTTCAGCAACTACTATATGGCCTGGGTCCGACAGGCCCTGGCAAAGGAC
TTGAATGGGTGTCCACCATCACCACCAAGCGGCAGCAGACTTACTACGCCGATAGCGTGAAGGGCAGATTACCATCAGCCGGGACAACAGCAAG
AACACCCGTGACCTGCAGATGAACAGCCTGAGAGCCGAGGACACCGCCGTGTAATTTGCGCCAGACACATCTACTACTACGACGGCTACCCCTT
CGCCTATTGGGGCCAGGGAACACTGGTCACAGTTAGCTCAGCCTCCACCAAGGGCCCTTCGCTGTTCCTCTGGCCCTTGTAGCCGTTCCACCA
GCGAGTCCACCGCCGCCCTTGGCTGTCTGGTGAAGGACTACTTCCCTGAGCCTGTGACCGTGAGCTGGAACTCCGGAGCCCTTACCAGCGGCGTG
CACACCTTCCCTGCCGTGCTGCAGTCCAGCGGCCCTTACTCCCTGAGCTCCGTGGTGACCGTGCTAGCTCCAACCTTGGCACCCAAACCTACAC
CTGTAACTGTGACCAACAAGCCTAGCAACACCAAGGTGGACAAGACCGTGGAGCGTAAGTGTGTGGAGTGTCTCCTTGTCTGCCCTCCTG
TGGCCGGACCTTCGCTGTCTTTTCCCTCCTAAGCCTAAGGACACCCCTGATGATCAGCCGTACCCCTGAGGTGACCTGTGTGGTGGTGACGTG
TCCCACGAGGACCCCTGAGGTGCAGTTCAACTGGTACGTGGACGGCGTGGAGGTGCACAACGCCAAGACCAAGCCTCGTGAGGAGCAATTAACAG
CACCTTCCGTGTGGTGTCCGTGCTTACCGTGGTGACCAAGACTGGCTGAACGGCAAGGAGTACAAGTGAAGGTGAGCAACAAGGGACTTCCTG
CCCCTATCGAGAAGACCATCTCCAAGACCAAGGGCCAACCTCGTGAGCCTCAAGTGTACACCCCTTCCCTCCTAGCCGTGAGGAGATGACCAAGAAC
CAAGTGTCCCTTACCTGTCTGTGTAAGGGCTTCTACCCTAGCGACATCGCCGTGGAGTGGGAGTCCAACGGACAACCTGAGAACAACATAAGAC
CACCCTCCTATGCTTGACAGCGACGGCTCCTTCTTCTGTACAGCAAGCTGACCGTGGACAAGTCCCGTTGGCAACAAGGCAACGTGTTACAGT
GTTCCGTGATGCACGAGGCCCTGCACAACCACTACACCCAAAAGAGCCTTTCCTGAGCCCTGGAAAG

シグナル配列 1-57、可変領域 58-420、定常領域 421-1398

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[図37-2]

配列番号 125: #84H1hIgG4Pのアミノ酸配列 (各 CDR に下線)

MKHLWFFLLLVAAPRVVLSEVQLVESGGGLVQPGGSLRLSCAASGFTFSNYYMAWVRQAPGKLEWVSTITTSGRPPYYADSVKGRFTISRDN
 NTLYLQMNSLRAEDTAVYYCARHIYYDGYPFAYWGQGLTVTVSSASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGV
 HTFPAVLQSSGLYSLSSVTVTPSSSLGKTYYTCNVDPKPSNTKVDKRVESKYGPPCPPCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVD
 VSDQEDPEVGFNNWYVDGVEVHNATKPREQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPREPQVYTLPPSQEEMTK
 NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSVMEALHNHYTQKSLSLSLGK
 シグナル配列 1~19、可変領域 20~140、定常領域 141~467

配列番号 126: #84H1hIgG4Pのヌクレオチド配列

ATGAAACACCTGTGGTTCTTCTCCTGCTGGTGGCAGCTCCAGATGGGTGCTGAGCGAAGTGCAGCTGGTTGAGTCTGGCGGAGGACTGGTTCA
 ACCTGGCGGAAGCCTGAGACTGTCTTGCCGCCAGCGGCTTACCTTCAGCACTACTATATGGCCTGGGTCGACAGGCCCTGGCAAAGGAC
 TTGAATGGGTGTCCACCATACCAACAGCGGCAGCAGACCTTACTACGCCGATAGCGTGAAGGGCAGATTACCATCAGCCGGGACAACAGCAAG
 AACACCCGTGACCTGCAGATGAACAGCCTGAGAGCCGAGGACACCGCCGTGTAATTCGCGCAGACACATCTACTACTACGACGGCTACCCCTT
 CGCCTATTGGGGCCAGGGAACACTGGTCAAGTTAGCTCAGCCTCCACCAAGGGCCCTAGCGTGTTCCTCTGGGCCCTTGTAGCAGAAGCACC
 GCGAGTCTACAGCCGCCCTGGGCTGCCTCGTGAAGGACTACTTCCGAGCCCGTGACCGTGTCTGGAAGTCTGGCGCTGTGACAAGCGGCGTG
 CACACCTTTCCAGCGGTGCTGCAGAGCAGCGGCTGTACTCTGTGTCAGCGTGTGACTGTGCCAGCAGCTCTCTGGCCACCAAGACCTACAC
 CTGTAACGTGAGACACAAGCCAGCAGCAACCAAGGTGGACAAGCGGGTGAATCTAAGTACGGCCCTCCCTGCCCTCCTTGCCAGCCCTGAAT
 TTCTGGGCGGACCTCCGTGTTCTGTTCCCCCAAGCCCAAGGACACCTGATGATCAGCCGACCCCGAAGTGACCTGCGTGGTGGTGGAT
 GTGTCCCAAGGAAGATCCCGAGGTGCAGTTCAATTGGTACGTGGACGGCGTGAAGTGCACAACGCCAAGACCAAGCCTAGAGAGGAACAGTTCAA
 CAGCACCTACCGGGTGGTGTCCGTGCTGACAGTGTGTCACAGGACTGGCTGAACGGCAAGAGTACAAGTGCAAGGTGTCCAACAAGGCCCTGC
 CAGCTCCATCGAGAAACCATCAGCAAGGCCAAGGGCCAGCCCGCAACCCAGGTGTACACACTGCCTCCAAGCCAGGAAGAGATGACCAAG
 AATCAGGTGTCCCTGACCTGTCTCGTGAAGGCTTCTACCCCTCCGATATCGCGTGAAGTGGGAGAGCAACGGCCAGCCCGAGAACAACTACAA
 GACCACCCGCCCTGTGCTGGACTCCGATGGCTCATTCTCTGTACAGCAGACTGACCGTGGACAAGAGCCGGTGGCAGGAAGGCAACGTGTTCA
 GCTGCTCCGTGATGCACGAGGCCCTGCACAACCTACACCCAGAAGTCCCTGTCTGTAGCCTGGGCAAA
 シグナル配列 1~57、可変領域 58~420、定常領域 421~1401

[図37-3]

配列番号 127: #84L2hのアミノ酸配列 (各 CDR に下線)

MVLQTQVFI SLLLWISGAYGDVQMTQSPSSLSASVGDRTITCKASKSISNNLAWYQQKPGKANKLLIHSGLTQSQTSPSRFSGSGSDFTLT
 ISSLQPEDFATYYCQYNEPLTFGGGTKEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKD
 STYLSSTLTLSKADYEHKHYACEVTHQGLSSPVTKSFNRGEC
 シグナル配列 1~20、可変領域 21~128、定常領域 129~234

配列番号 128: #84L2hのヌクレオチド配列

ATGGTGCTGCAGACCCAGGTGTTCTCCTGCTGCTGTGGATCTCCGGCGCGTACGGCGAGTTCAGATGACACAGAGCCCTAGCAGCGCTGTC
 TGCCAGCGTGGGAGACAGAGTGACCATCACATGCAAGGCCAGCAAGAGCATCAGCAACAACCTGGCCTGGTATCAGCAGAAGCCCGAAAGGCCA
 ACAAGTGCTGATCCACAGCGGCAGCAGACTGCAGTCTGGCAGCCCTAGCAGATTTTCCGGCTCTGGCAGCGGCACCGATTTACCCCTGACCAT
 TCTAGCCTGCAGCCTGAGGACTTGGCCACCTACTACTGCCAGCAGTACAACGAGTACCCCTGTGACCTTTGGCCAGGGCACCAGGTGGAAATCAA
 GCGTACGGTGGCCGCCCTCCGTGTTTCATCTTCCCCCTCCGACGAGCAGCTGAAGTCCGGCACCACCGCTCCGTGGTGTGCTGCTGAATAACT
 TCTACCCAGAGAGGCCAAGGTGCAAGTGAAGGTGGACAACGCCCTGCAGTCCGGGAACCTCCAGGAGAGCGTGACCGAGCAGGACAGCAAGGAC
 AGCACCTACAGCCTGAGCAGCACCTGACCTGAGCAAGCCGACTACGAGAAGCACAAGGTGTACCGCTGCGAGGTGACCCACAGGGCTGAG
 CTCGCCCTGACCAAGAGCTTCAACAGGGGGAGTGT
 シグナル配列 1~60、可変領域 61~384、定常領域 385~702

ATGAACACACCTGTGGTCTCTCCCTCTGCTGGTGGCAGCTCCCAGATGGGTGCTGAGCGAAGTGCAGCTGGTTGAGTCTGGCGGAGGACTGGTTCAGCTGGCAGAGAAGCTGAGACGTGTCTTTGTGCGCCGACGGCTTCACCTTCACGGCAGTACTATAATGGCTGGGTGCCAGACGGCCCTGGCAAGGACATGGTGAATGGGTGCCACCATTGACCTACGCGACGCAACCACTACTCCGGGACAGCGTGAAGGCGAGTTCCACATCCGAGACAACGACGAAGCACCGGTGTACCTCGAGATGACAGACCGTGTGAGAGCGGGCGATACCCGGCTGTACTACTGGCGGAGATTCTACAACAACCTACTCTGCACACTGTGGGCCAGGGCACCCCTGGTCACAGTTAGCTCAGCCTCCACAAGGGGCCCTAGCGTGTTCCTCTGGCCCCCTGTAGCAGAAGCACCGAGGTCTAACCGCCCTGGGTGCTGTGAAGGACTACTTCCGAGAGCCGCTGACCGGTGTCTGGAACCTCTGGCGCTCTGACAAGCGCGCTGCACACTGTCTCCAGCGCTGCTGCAGAGACGGCGCTGTACTCTGTCCAGCGTGTGACTGTGCGCCAGAGCTCTCTGGGCACCAAGACTACACTGTAACGTGGACCAACAGCCGACCAACCAAGGTGGACAAGGGGTGGAATCTAAGTACGGCCGCTCCGTGGCTCTGTGCCAGCGCCCTGAATTTCTGGGGGACCCCTCCGTGTTCTGTTCGCCCAAAAGGCCAAGGACACCCGTGATGATCAGCCGGACCCCCGAAGTGACCTGCGTGGTGGTGGATGTGTCCCAGGAAGATCCCGAGGTGCAGTTCAATGGTAGCTGGACGGCGGTGGAAGTGCAACAACGCCGACAGCAAGCTAGAGAGGAACAGTTCAACACGACCTATCCGGGTGGTGTCCGTGCTGACAGTGTGCTCAGCAGGACTGGCTCAACGGGCAAGAGTACAAGTGAAGGTGCCAAGAGGGCCCTGCCAGCTCCATCGAGAAGAACCATTACGAAAGGCCACAGGGCCGACCGCCGAGCGGAGAGATTGACCAAGAACTCAGGTGTCCCTGACCTGTCTCGTAAAGGCTTCTACCCCTCCGATATCGCGGTGGAATGGGAGAGCAACGGCCAGCCGAGAGAACAACCTACAAGACCACCCCTCCGTGTGCTGGACTCGGATGGCTCATTTCTTCTGTATACGACGACTGACCGGTGAACAAGAGCGGTTGGCAGGAAAGGCAAGGTGTTTCAGCTGTCTCCGTGATGACAGAGGCCCTGCACAACCACTACACCCAGAAGTCCCTGTCTGTAGCCTGGGCAAA

シグナル配列 1-57、可変領域 58-411、定常領域 412-1392

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[図38-3]

配列番号 133 : # 101L2hのアミノ酸配列 (各 CDR に下線)

MVLQTVFISLLWISGAYGDIQMTQSPSSASVGDRTVINCKASONLYYNLAWYQQKPGKAPKLLIDNANSLQTGIPSRFSGSGSDFTLTII
 SSLQPEDFATYFCQQYYSGSYTFGGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKD
 STYSLSSLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

シグナル配列 1~20、可変領域 21~128、定常領域 129~234

配列番号 134 : # 101L2hのヌクレオチド配列

ATGGTGCTGCAGACCCAGGTGTTTCATCTCCCTGCTGCTGTGGATCTCCGGCGCGTACGGCGATATCCAGATGACACAGAGCCCTAGCAGCCTGTC
 TGCCAGCGTGGGAGATAGAGTGACCATCACTGCAAGGCCAGCCAGAACCTGTACAAGAACCTGGCCTGGTATCAGCAGAAGCCGGCAAGGCTC
 CTAAAGCTGCTGATCGACAACGCCAACAGCCTGCAGACCGGCATTCCAGCAGAGATTTTCTGGCAGCGGCTCCGGCACCGATTTCACCTGACCAT
 TCTAGCCTGCAGCCTGAGGACTTCGCCACCTACTTTTCCAGCAGTACTACAGCGGCAGCTACACCTTTGGCCAGGGCACCAGGTGGAATCAA
 GCGTAGCGTGCCCGCCCCCTCCGTGTTTCATCTTCCCCCTCCGACGAGCAGCTGAAGTCCGGCACCGCCTCCGTGGTGTGCCTGCTGAATAACT
 TCTACCCAGAGAGGCCAAGGTGCAAGTGGAAAGTGGACAACGCCCTGCAGTCCGGGAACCTCCAGGAGAGCGTGACCGAGCAGGACAGCAAGGAC
 AGCACCTACAGCCTGAGCAGCACCTGACCTGAGCAAGCCGACTACGAGAAGCAAGGTGTACGCTGCGAGGTGACCCACCAGGGCCTGAG
 CTCCCCCGTCACCAAGAGCTTCAACAGGGGGAGTGT

シグナル配列 1~60、可変領域 61~384、定常領域 385~702

[図39-1]

配列番号 135 : # 110H1hIgG4Pのアミノ酸配列 (各 CDR に下線)

MKHLWFFLLVAAPRWLVQVQLVQSGAEVKKPGASVKVSKASGYFTSDFMHWVRQAPGGLEWMMGNIYPGDDTEYNQKFQGRVLTTRDTSI
 STAYMELSRRLSDDTAVYYCARGRGYMDAWGGTITVTSSASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFP
 AVLQSSGLYSLSSVTVPSSSLGKTYTQNVDPKPSNTKVDKRVESKYPPCPPCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQ
 DPEVQFNWYVDGVEVHNAKTKPREEQFNSTYRVSVLTVLHODWLNKEYKCKVSNKGLPSSIEKTSKAKGQPREPOVYTLPPSQEEMTKNQV
 LTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDSRWQEGNVFSCSYMHEALHNHYTQKSLSLSLGK

シグナル配列 1~19、可変領域 20~136、定常領域 137~463

配列番号 136 : # 110H1hIgG4Pのヌクレオチド配列

ATGAAACACCTGTGGTTCTTCTCCTGCTGGTGGCAGCTCCAGATGGGTGCTGAGCCAGGTTAGCTGGTTCAGTCTGGCGCCGAAGTGAAGAA
 ACCTGGCGCCTCTGTGAAGGTGCTCCTGCAAGGCCAGCGGCTACACCTTTACCAGCGACTTCATGCACTGGGTCCGACAGGCTCCAGGACAGGGAC
 TTGAATGGATGGGCTGGATCTATCCGGCGCAGCGGCACCGGAGTACAACAGAAATTCCAGGGCAGAGTGACCTGACCCAGAGACACCAGCATC
 AGCACCGCCTACATGGAAGTGAAGCGGCTGAGATCCGATGACACCGCGGTGTAAGTCTGCGCCAGAGGAGAGGCTATGTGATGGATGCTTGGGG
 CCAGGGCACCACCGTTACAGTTAGCTCAGCCTCCACCAAGGGCCCTAGCGTGTTCCCTCTGGCCCTTGTAGCAGAAGCACCAGCGAGTCTACAG
 CCGCCCTGGGCTGCCTCGTGAAGGACTACTTTCCCGAGCCCGTGACCGGTGCTCTGGAACCTCTGGCGCTCTGACAAGCGGCGTGACACCTTTCCA
 GCCGTGCTGCAGAGCAGCGGCTGTACTCTGTGTCAGCGTGTGACTGTGCCAGCAGCTCTCTGGGCACCAAGACCTACACCTGTAAAGTGA
 CCACAAGCCAGCAACCAAGGTGGACAAGCGGGTGAATCTAAGTACGGCCCTCCCTGCCCTCTTGCCAGCCCTGAATTTCTGGGCGGAC
 CCTCGGTGTTCTGTTCCGCCAAAGCCCAAGGACACCTGATGATCAGCGGACCCCGAAGTGACCTGCGTGGTGGATGTGTCCAGGAA
 GATCCCGAGGTGCAGTTCAATTGTTACGTGGAGCGGCTGGAAGTGACACAACGCCAAGCAAGCCCTAGAGAGGAACAGTTCAACAGCACCTACCG
 GGTGGTGTCCGTGCTGACAGTGTGCAACAGGACTGGCTGAACGGCAAAGTACAAGTGCAAGGTGTCCAACAAGGGCCTGCCAGCTCCATCG
 AGAAAACCATCAGCAAGGCCAAGGGCCAGCCCGCAACCCAGGTGTACACACTGCCTCCAAGCCAGGAAGAGATGACCAAGAATCAGGTGTCC
 CTGACCTGTCTCGTGAAGGCTTCTACCCCTCCGATATCGCCGTGGAATGGGAGAGCAACGGCCAGCCGAGAACAACTACAAGACCACCCCCC
 TGTGCTGGACTCCGATGGCTATTCTTCTGTACAGCAGACTGACCGTGGACAAGAGCCGGTGGCAGGAAGGCAACGTGTTACAGTGTCTCGTGA
 TGCACGAGGCCCTGCACAACCACTACACCCAGAAGTCCCTGTCTGAGCCTGGGCAAA

シグナル配列 1~57、可変領域 58~408、定常領域 409~1389

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[図39-2]

配列番号 147: # 110H13hI g G4P のアミノ酸配列 (各 CDR に下線)

MKHLWFFLLLVAPRRVVLQVQLVQSGAEVKKPGASVKVSCKASGYTFTSDFMHVVRQAPGGGLEWGWLYPGDGDTEYAQKFQGRVTMTDRTSI
 STAYMELSRLLSDDTAVYYCARGRGVYMDAWGGGTTTVYSSASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFP
 AVLQSSGLYSLSSVTVPPSSSLGKTYTCNVDPKPSNTKVDKRVESKYGPPCPPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSQEQ
 DPEVQFNWYVDGVEVHNATKPREEQFNSTYRVVSVLTVLHQDWLNGKEYCKVKVSNKGLPSSIEKTSKAKGQPREPQVYTLPPSQEEMTKNQVSV
 LTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSVMHREALHNHYTQKSLSLGK
 シグナル配列 1~19、可変領域 20~136、定常領域 137~463

配列番号 148: # 110H13hI g G4P のヌクレオチド配列

ATGAACACCTGTGGTTCCTCCTGCTGGTGGCAGCTCCAGATGGGTGCTGAGCCAGGTTGAGTGGTTCAGTCTGGCGCCGAAGTGAAGAA
 ACCTGGCGCCTCTGTGAAGGTGTCTGCAAGGCCAGCGGCTACACCTTTACCAGCGACTTCATGCACTGGGTCCGACAGGCTCCAGGACAGGGAC
 TTGAATGGATGGGCTGGATCTATCCCGCGCAGCGCGATACAGAGTACGCCAGAAATTCAGGGCAGAGTGACCATGACCAGAGACACCGCATC
 AGCACCGCCTACATGGAAGTGAAGCGGCTGAGATCCGATGACACCGCCGTGTACTACTGCGCCAGAGGCAGAGGCTATGTGATGGATGCTTGGGG
 CCAGGGCACCACCGTTACAGTTAGCTCAGCCTCCACCAAGGGCCCTAGCGTGTTCCTCTGGCCCTTGTAGCAGAAGCAGCGAGTCTACAG
 CCGCCCTGGGCTGCCTCGTGAAGGACTACTTTCCGAGCCCGTGACCGTGTCTGGAACCTGCGCGCTCTGACAAGCGCGCTGCACACCTTTCCA
 GCCGTGCTGCAGAGCAGCGGCTGTACTCTGTCCAGCGTGTGACTGTGCCAGCAGCTCTCTGGGCACCAAGACCTACACCTGTAACTGGGA
 CCACAAGCCAGCAACACCAAGGTGGACAAGCGGGTGAATCTAAGTACGGCCCTCCCTGCCCTCCTTGGCCAGCCCTGAATTTCTGGCGGAC
 CCTCGCGTGTTCCTGTTCCCGCCAAAGGCCAAGGACACCTGATGATCAGCCGACCCCGAAGTGACCTGCGTGGTGGATGTGTCCAGGAA
 GATCCCGAGGTGCAGTTCAATTGGTACGTGGACGGCGTGAAGTGACACAACGCCAAGCAAGCCCTAGAGAGGAACAGTTCAACAGCACCTACCG
 GGTGGTGTCCGTGCTGACAGTGTGCAACAGGACTGGGTGAACGGCAAGAGTACAAGTGCAAGGTGTCCAACAAGGGCCTGCCAGTCCATCG
 AGAAAACCATCAGCAAGGCCAAGGGCCAGCCCGGCAACCCAGGTGTACACACTGCCTCCAAGCCAGGAAGAGATGACCAAGAATCAGGTGTCC
 CTGACCTGTCTCGTGAAAGGCTTACCCCTCCGATATCGCGTGGAATGGGAGAGCAACGGCCAGCCGAGAGCAACACTACAAGACCCACCCGCC
 TGTGCTGGACTCCGATGGCTATTCTTCTGTACAGCAGACTGACCGTGGACAAGAGCCGGTGGCAGGAAGGCAACGTGTTCAGTGTCTCGTGGA
 TGCACGAGGCCCTGCACAACCACTACACCCAGAGTCCCTGTCTGTAGCCTGGGCAAA
 シグナル配列 1~57、可変領域 58~408、定常領域 409~1389

[図39-3]

配列番号 137: # 110L4h のアミノ酸配列 (各 CDR に下線)

MVLQTVFISLLWISGAYGDIQMTQSPSSLSASVGDRTITCRASQGISNYLNWYQKPKGAIKPLIYYTSNLSQGVPSRFSGSGSGTDYTLTI
 SSLQPEDFATYFCQQYDSSPRTFGGGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKD
 STYLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
 シグナル配列 1~20、可変領域 21~128、定常領域 129~234

配列番号 138: # 110L4h のヌクレオチド配列

ATGGTGCTGCAGACCCAGGTGTTATCTCCCTGCTGTGTGGATCTCCGGCGCGTACGGCGATATCCAGATGACACAGAGCCCTAGCAGCCTGTC
 TGCCAGCGTGGGAGACAGAGTGACCATCACCTGTAGAGCCAGCCAGGGCATCAGCAACTACCTGAACTGGTATCAGCAGAAGCCCGGCAAGGCCA
 TCAAGCCCTGATCTACTACACAGCAACCTGCAGAGCGCGGTGCCAGCAGATTTTCTGGCTCTGGCAGCGGCACCGACTACACCTGACCATATA
 TCTAGCCTGCAGCCTGAGGACTTCGCCACCTACTTTTCCAGCAGTACGACAGCAGCCCGAGAACCTTTGGCGGCGGAACAAAGGTGGAATCAA
 GCGTACGGTGGCGGCCCTCGGTGTTATCTTCCCGCCCTCCGACGAGCAGCTGAAGTCCGGCACCGCCTCCGTGGTGTGCTGCTGAATAACT
 TCTACCCAGAGAGGCCAAGGTGCAAGTGGAGGTGGACAACGCCCTGCAGTCCGGGAACCTCCAGGAGAGCGTGACCGAGCAGGACAGCAAGGAC
 AGCACCTACAGCCTGAGCAGCACCTGACCTGAGCAAGCCGACTACGAGAAGCACAAGGTGTACGCCTGCGAGGTGACCCACAGGGCCTGAG
 CTCCCCCGTCACCAAGAGCTTCAACAGGGGGAGTGT
 シグナル配列 1~60、可変領域 61~384、定常領域 385~702

[図39-4]

配列番号 149: # 110L2h のアミノ酸配列 (各 CDR に下線)

MVLQTVFISLLWISGAYGDIQMTQSPSSLSASVGDRTITCRASQGISNYLNWYQKPKGAPKPLIYYTSNLSQGVPSRFSGSGSGTDYTLTI
 SSLQPEDFATYFCQQYDSSPRTFGGGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKD
 STYLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
 シグナル配列 1~20、可変領域 21~128、定常領域 129~234

配列番号 150: # 110L2h のヌクレオチド配列

ATGGTGCTGCAGACCCAGGTGTTATCTCCCTGCTGTGTGGATCTCCGGCGCGTACGGCGATATCCAGATGACACAGAGCCCTAGCAGCCTGTC
 TGCCAGCGTGGGAGACAGAGTGACCATCACCTGTAGAGCCAGCCAGGGCATCAGCAACTACCTGAACTGGTATCAGCAGAAGCCCGGCAAGGCC
 CTAAGCCTCTGATCTACTACACAGCAACCTGCAGAGCGCGGTGCCAGCAGATTTTCTGGCTCTGGCAGCGGCACCGACTACACCTGACCATATA
 TCTAGCCTGCAGCCTGAGGACTTCGCCACCTACTACTGCGCAGCATACGACAGCAGCCCGAGAACATTTGGCGGAGGCACCAAGGTGGAATCAA
 GCGTACGGTGGCGGCCCTCGGTGTTATCTTCCCGCCCTCCGACGAGCAGCTGAAGTCCGGCACCGCCTCCGTGGTGTGCTGCTGAATAACT
 TCTACCCAGAGAGGCCAAGGTGCAAGTGGAGGTGGACAACGCCCTGCAGTCCGGGAACCTCCAGGAGAGCGTGACCGAGCAGGACAGCAAGGAC
 AGCACCTACAGCCTGAGCAGCACCTGACCTGAGCAAGCCGACTACGAGAAGCACAAGGTGTACGCCTGCGAGGTGACCCACAGGGCCTGAG
 CTCCCCCGTCACCAAGAGCTTCAACAGGGGGAGTGT
 シグナル配列 1~60、可変領域 61~384、定常領域 385~702

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[図39-5]

配列番号 151 : # 110L12h のアミノ酸配列 (各 CDR に下線)

MVLQTVFISLLWISGAYGDIQMTQSPSSLSASVGRVTITCRASQGISNYLNWYQKPGKAPKPLIYYTSLNLSQGVPSRFSGSGSGTDFLTIT
 SSLQPEDFATYYCQQYDSSPRTFGGGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKD
 STYSLSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

シグナル配列 1~20、可変領域 21~128、定常領域 129~234

配列番号 152 : # 110L12h のヌクレオチド配列

ATGGTGCTGCAGACCCAGGTGTTTCATCTCCCTGCTGCTGTGGATCTCCGGCGGTACGGCGATATCCAGATGACACAGAGCCCTAGCAGCCTGTG
 TGCCAGCGTGGGAGACAGAGTGACCATCACCTGTAGAGCCAGCCAGGGCATCAGCAACTACCTGAACTGGTATCAGCAGAAAGCCGGCAAGGCC
 CTAAGCCTCTGATCTACTACACAGCAACCTGCAGAGCGGGTCCCGAGCAGATTTCTGGCTCTGGCAGCGGCACCGACTTCACCTGACCATA
 TCTAGCCTGCAGCCTGAGGACTTCGCCACCTACTACTGCCAGCAGTACGACAGCAGCCAGAACATTTGGCGGAGGCACCAAGGTGGAATCAA
 GCGTACGGTGGCGGCCCTCCGTGTTTCATCTTCCCCCCTCCGACGAGCAGCTGAAGTCCGGCACCGCCTCCGTGGTGTGCCTGCTGAATAACT
 TCTACCCAGAGAGGCCAAGGTGCAAGTGAAGGTGGACAACGCCCTGCAGTCCGGGAATCCAGGAGAGCGTGACCGAGCAGGACAGCAAGGAC
 AGCACCTACAGCCTGAGCAGCACCTGACCCTGAGCAAGCCGACTACGAGAAGCACAAGGTGTACGCCTGCGAGGTGACCCACAGGGCCTGAG
 CTCGCCCGTCACCAAGAGCTTCAACAGGGGGAGTGT

シグナル配列 1~60、可変領域 61~384、定常領域 385~702

[図40-1]

配列番号 139 : # 131H2h IgG2 のアミノ酸配列 (各 CDR に下線)

MKHLWFFLLVAAPRWLVQVQLVESGGGVVQPGRLRLSCAASGFTNNYWMWVRQAPGKLEWVASITKAGGSTYYADSVKGRFTISRDNSK
 STLYLQMNSLRAGETAVYYCTRELGEFYMDAWGQTTVTVSSASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGVHT
 FPAVLQSSGLYSLSSVTPSPSNFGTQTYTCNVDPKPSNTKVDKTVKRCCEVECPPEPPAPPVAGPSVFLFPPKPKDITLMISRTPEVTVVVDVSH
 EDPEVGFNYYVDGEVHNAKTKPREQFNSTFRVSVLTVVHQDNLNGKEYCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSREEMTKNQV
 SLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPMLDSGSSFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

シグナル配列 1~19、可変領域 20~138、定常領域 139~464

配列番号 140 : # 131H2h IgG2 のヌクレオチド配列

ATGAACACCTGTGGTTCTTCTCCTGCTGGTGGCAGCTCCAGATGGGTGCTGAGCCAGTTGAGCTGGTTGAATCTGGTGGCGGAGTGGTGCA
 GCTTGGCAGATCTGTGAGACTGTCTTGTGCCGCCAGCGGCTTACCTTCAACAATACTGGATGACCTGGGTCCGACAGGCCCTGGCAAGGAC
 TTGAATGGTGCAGCATCACCAAGGCTGGCGGCTCTACCTACTACGCCGATAGCGTGAAGGGCAGATTACCATCAGCCGGGACACAGCAAG
 AGCACCCCTGTACCTGCAGATGAACAGCCTGAGAGCCGAGGGGCACAGCCGTGTACTACTGTACAAGAGAGCTGGGGGAGTTCTACGTGATGGATGC
 CTGGGGCCAGGGCACACAGTTACAGTTAGCTCAGCCTCCACCAAGGGCCCTTCCGTGTTCCCTCTGGCCCTTGTAGCCGTTCCACAGCGAGT
 CCACCGCGCGCCTTGGCTGTCTGGTGAAGGACTACTTCCCTGAGCCTGTGACCGTGAGCTGGAAGTCCGGAGCCCTTACCAGCGCGTGCAACACC
 TTCCCTGCCGTGCTGCAGTCCAGCGCCCTTACTCCCTGAGCTCCGTGGTGACCGTGCCTAGCTCCAATTCGGCACCCAACTACACCTGTAA
 CGTGGACCAACAAGCTAGCAACACCAAGGTGACAAAGCGTGGAGCGTAAGTGTGTTGTGGAGTGTCTCCTTGTCTGCCCTCCTGTGGCCG
 GACCTTCCGTGTTCTTTTCCCTCCTAAGCCTAAGGACACCGTGATGATCAGCCGTACCCCTGAGGTGACCTGTGTGGTGGTGGAGTGTCCAC
 GAGGACCCGTAGGTGCAGTTCAACTGGTACGTGGACGGCGTGGAGGTGCACAACGCCAAGCAAGCCCTCGTGAGGAGCAATTCAACAGCACCTT
 CCGTGTGGTGTCCGTGCTTACCCTGGTGCACCAAGACTGGCTGAACGGCAAGGAGTACAAGTGTAAAGGTGAGCAACAAGGGACTTCTGCCCTTA
 TCGAGAAGACCATCTCCAAGACCAAGGGCCAACCTCGTGAGCCTCAAGTGTACACCTTCTCCTAGCCGTGAGGAGATGACCAAGAACAAGTG
 TCCCTTACCTGTCTGGTGAAGGGCTTCTACCCCTAGCGACATCGCCGTGGAGTGGGAGTCCAACGGACAACCTGAGAACAACTACAAGACCAACCC
 TCCTATGCTTGACAGCGACGGCTCCTTCTCTCTGTACAGCAAGCTGACCGTGGACAAGTCCCCTGGCAACAAGGCAACGTGTTACAGCTGTTCCG
 TGAATGCAGAGGCCCTGCACAACCACTACACCAAAAGAGCCTTTCCTGAGCCCTGGAAAG

シグナル配列 1~57、可変領域 58~414、定常領域 415~1392

[図40-2]

配列番号 141 : # 131L2h のアミノ酸配列 (各 CDR に下線)

MVLQTVFISLLWISGAYGDIQMTQSPSSLSASVGRVTITCKASKSINTYLAWEKPGKTNKLLIYSGSTLQSGTPSRFSGSGSGTDFLTIT
 SSLQPEDFATYYCQQHNEYPFTFGGQTKLEIKRTVAAPSVFIFPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKD
 STYSLSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

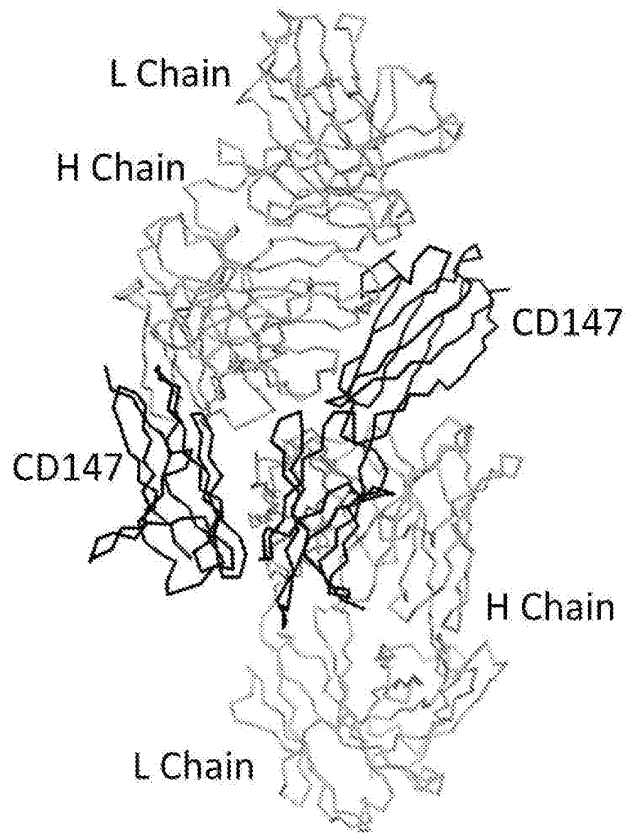
シグナル配列 1~20、可変領域 21~128、定常領域 129~234

配列番号 142 : # 131L2h のヌクレオチド配列

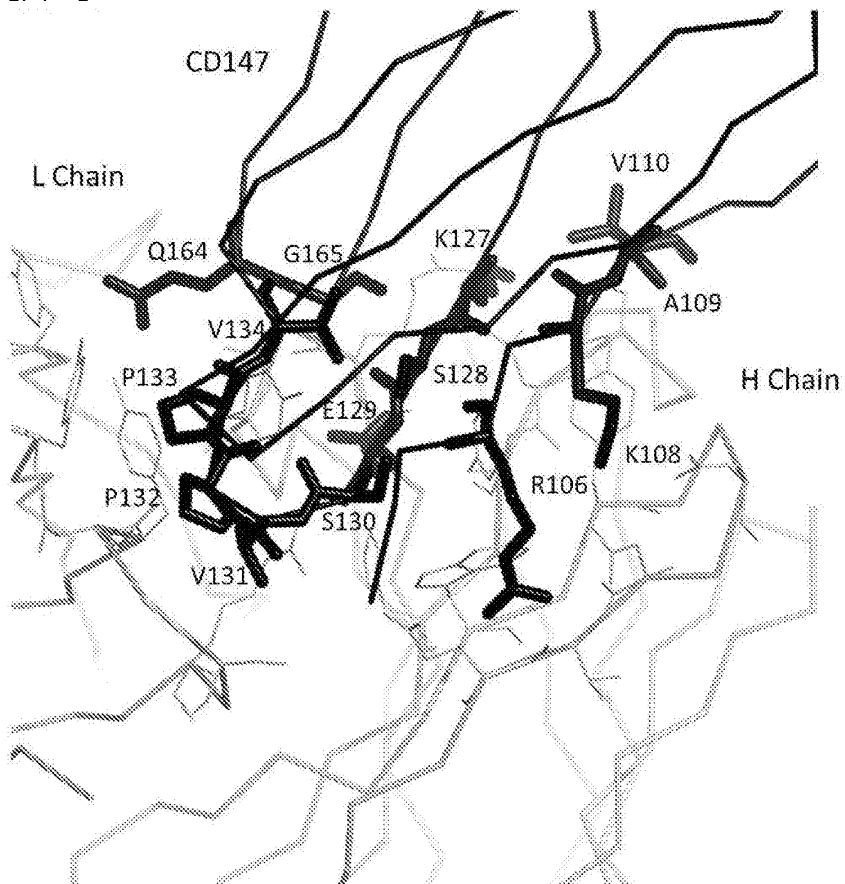
ATGGTGCTGCAGACCCAGGTGTTTCATCTCCCTGCTGCTGTGGATCTCCGGCGGTACGGCGACGTTGAGATGACACAGAGCCCTAGCAGCCTGTG
 TGCCAGCGTGGGAGACAGAGTGACCATCACATGCAAGGCCAGCAAGAGCATCAACACCTACCTGGCCTGGTATCAAGAGAAGCCCGCAAGACCA
 ACAAGCTGCTGATCTACAGCGGCAGCACACTGCAGAGCGGCACCCCTTCTAGATTTTCCGGCTCTGGCAGCGGCACCGACTTCACCTGACCATA
 TCTAGCCTGCAGCCTGAGGACTTCGCCACCTACTACTGCCAGCAGCACAACGAGTACCCCTTACCTTTGGCCAGGGCACCAAGCTGGAATCAA
 GCGTACGGTGGCGGCCCTCCGTGTTTCATCTTCCCCCCTCCGACGAGCAGCTGAAGTCCGGCACCGCCTCCGTGGTGTGCCTGCTGAATAACT
 TCTACCCAGAGAGGCCAAGGTGCAAGTGAAGGTGGACAACGCCCTGCAGTCCGGGAATCCAGGAGAGCGTGACCGAGCAGGACAGCAAGGAC
 AGCACCTACAGCCTGAGCAGCACCTGACCCTGAGCAAGCCGACTACGAGAAGCACAAGGTGTACGCCTGCGAGGTGACCCACAGGGCCTGAG
 CTCGCCCGTCACCAAGAGCTTCAACAGGGGGAGTGT

シグナル配列 1~60、可変領域 61~384、定常領域 385~702

[図41]

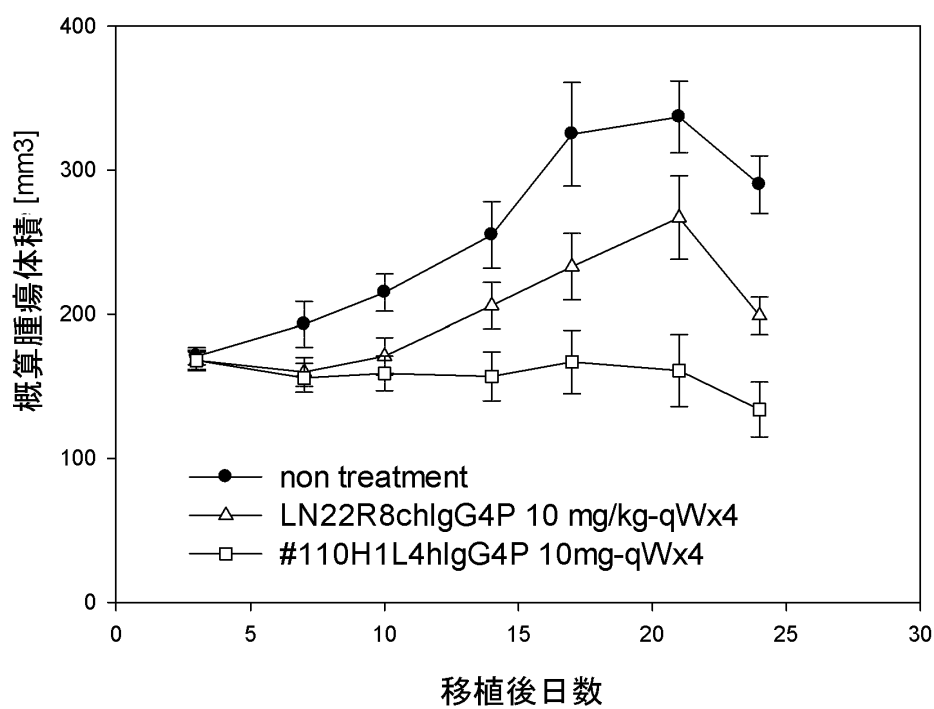


[図42]



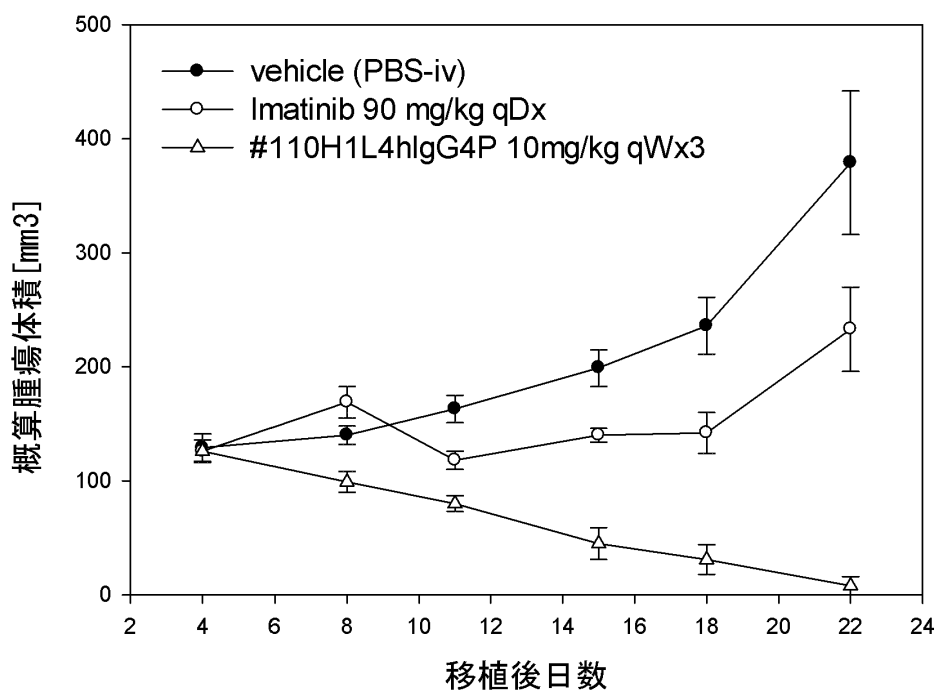
[図43]

Kato III 腫瘍増殖



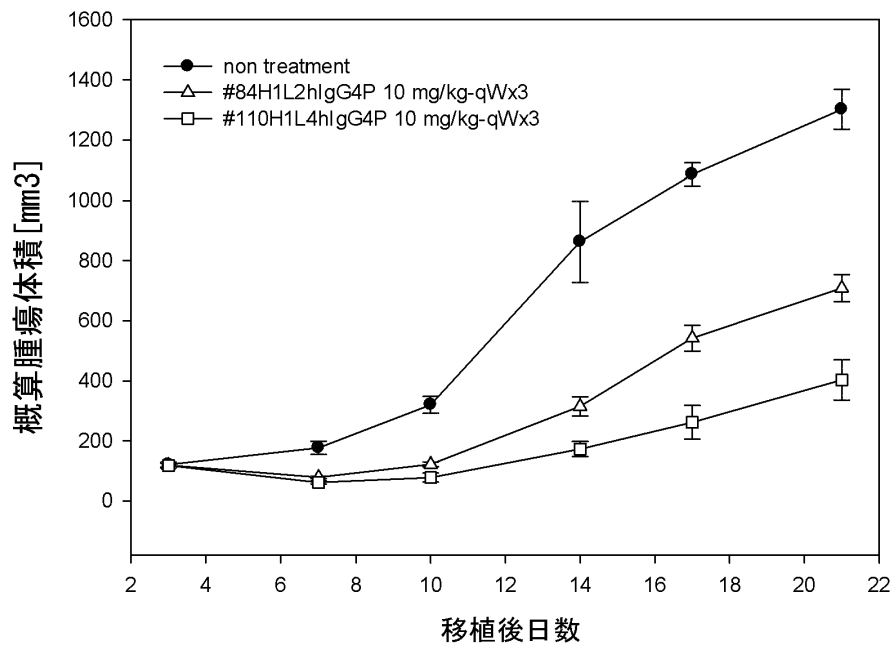
[図44]

KU812 腫瘍増殖



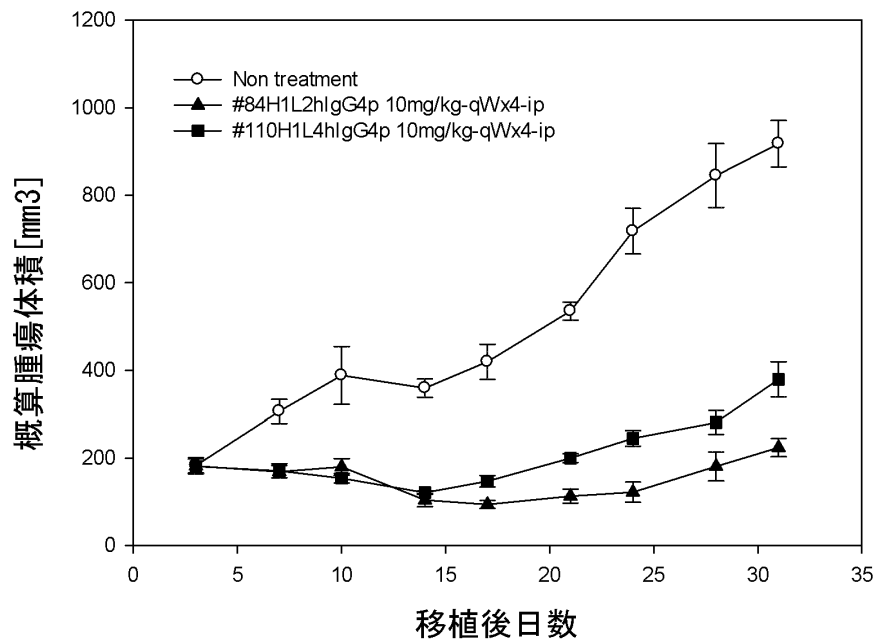
[図45]

SW620 腫瘍増殖



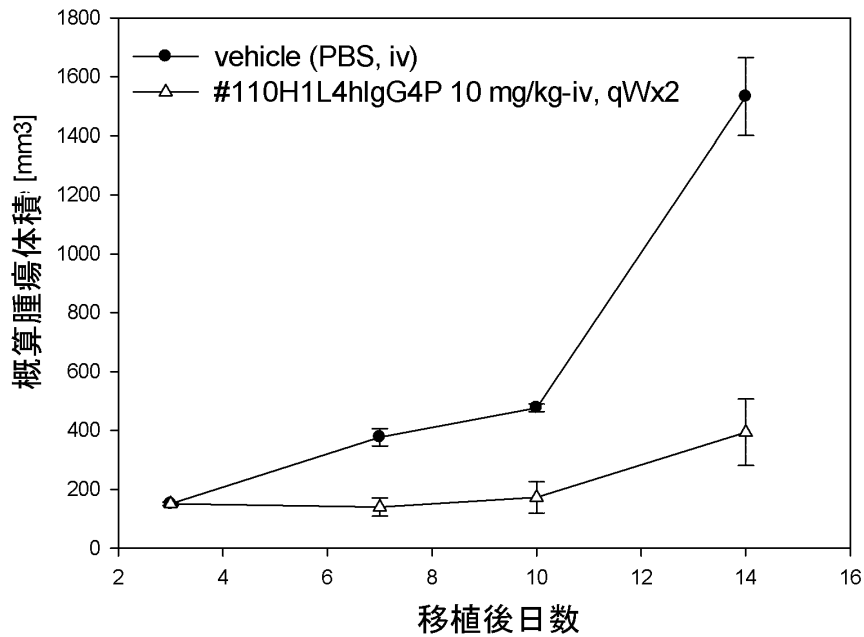
[図46]

786-0 腫瘍増殖



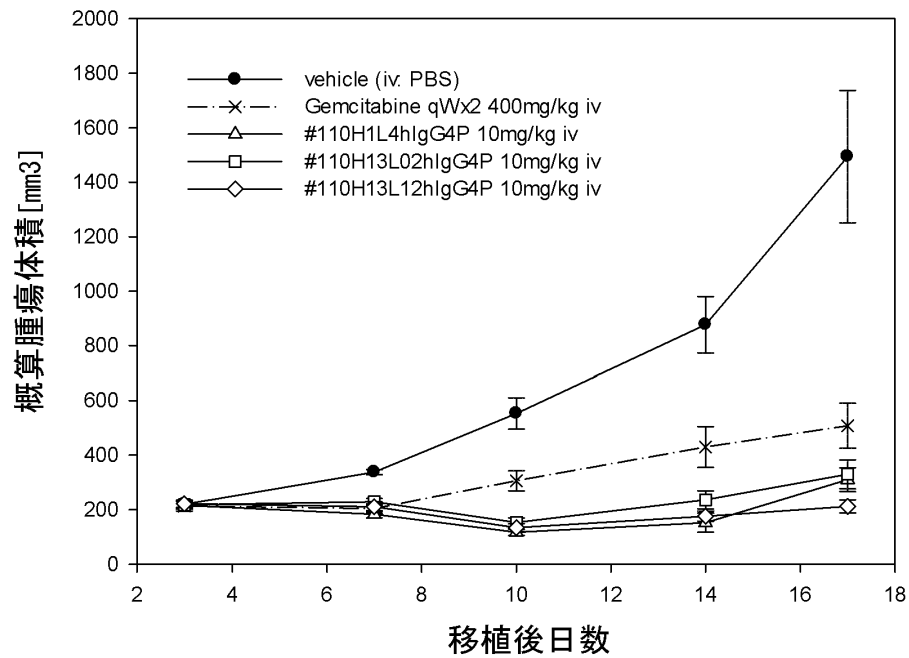
[図47]

OCI-AML3 腫瘍増殖



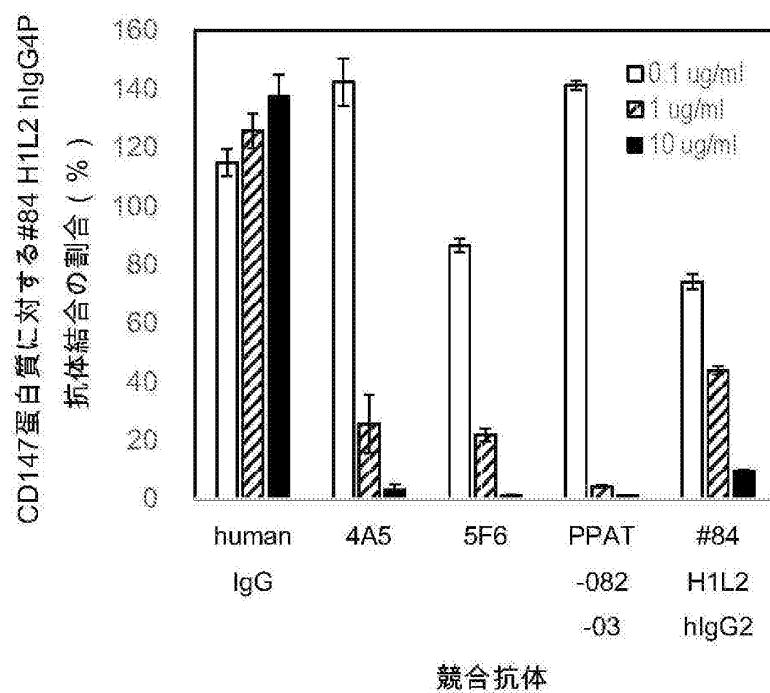
[図48]

ヌードマウスにおける MIAPaCa-2 腫瘍増

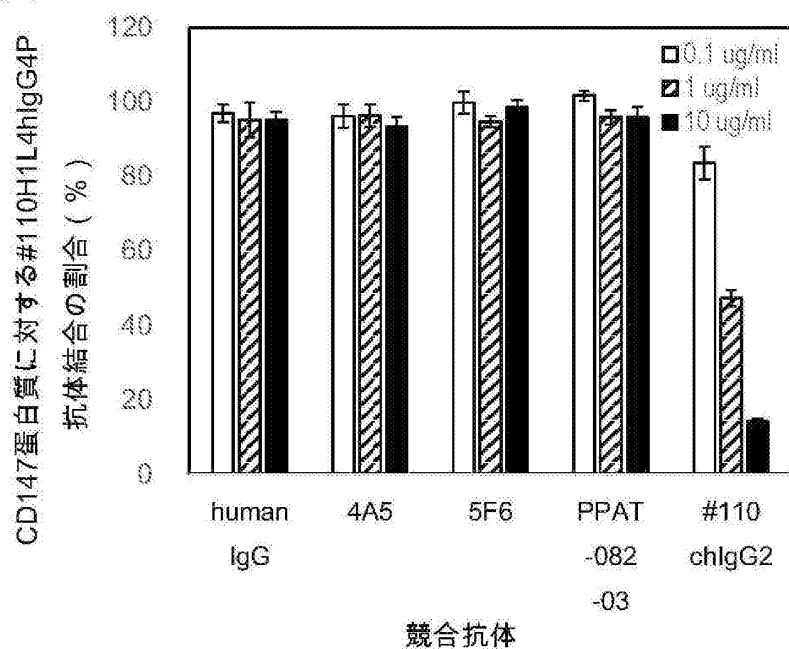


[図49]

(a)



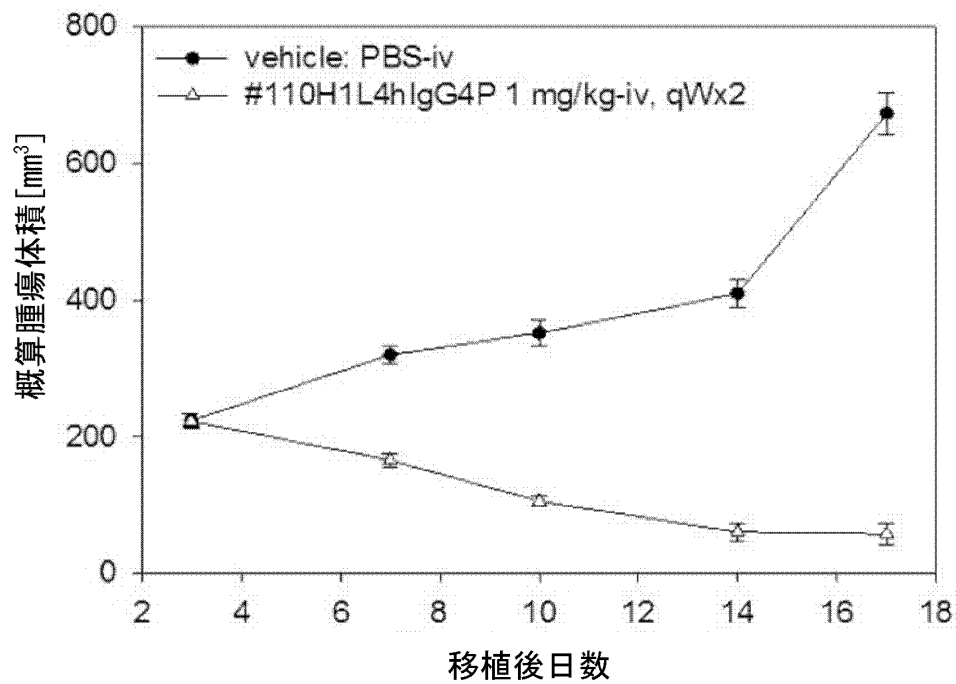
(b)



[図50]

(a)

MIA PaCa-2 mock の腫瘍増殖



(b)

MIA PaCa-2-KLF5 の腫瘍増殖

