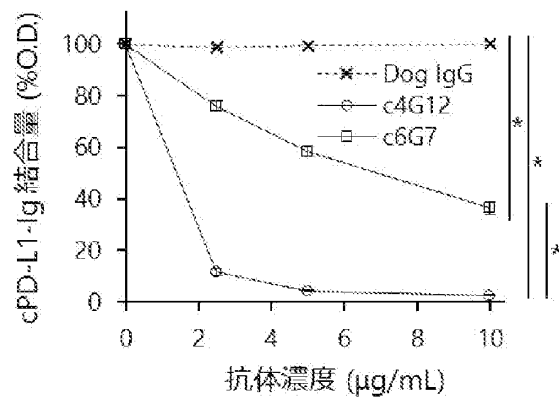


Antibody Concentration (μg/mL)	Rat IgG (%O.D.)	Rat IgM (%O.D.)	4G12 (%O.D.)	5A2 (%O.D.)	6G7 (%O.D.)
0	100	100	100	100	100
2.5	100	100	35	35	5
5	100	100	12	12	2
10	100	100	8	6	2

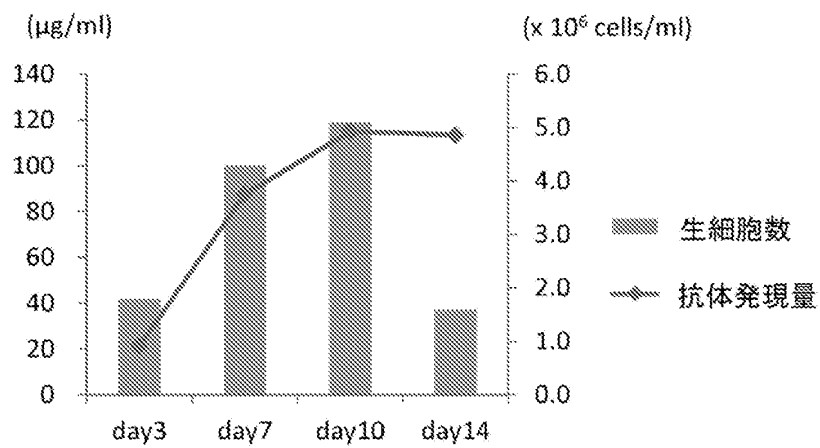
Figure 1 illustrates the construction of the pDC6 expression vector and the resulting antibody structure. The top part shows the linear arrangement of the antibody gene segments: Light chain, P_{ASGH}, P_{CMV}, IN_{RBG}, and Heavy chain. The bottom part shows the circular pDC6 plasmid map, which includes the P_{CMV} promoter, the IN_{RBG} and P_{ASGH} regions, the cd180DHFR gene, and the Amp^r resistance gene. The right side shows the antibody structure, with the variable region (可変領域) and the constant region (定常領域) indicated. The legend indicates that the dark grey ovals represent the rat (ラット由来) component and the light grey ovals represent the mouse (イヌ由来) component.

(kDa)	c4G12		c6G7		4G12	Dog IgG
	a	b	a	b		
250	+	+	+	+	+	+
150	-	-	-	-	-	-
100	-	-	-	-	-	-
75	-	-	-	-	-	-

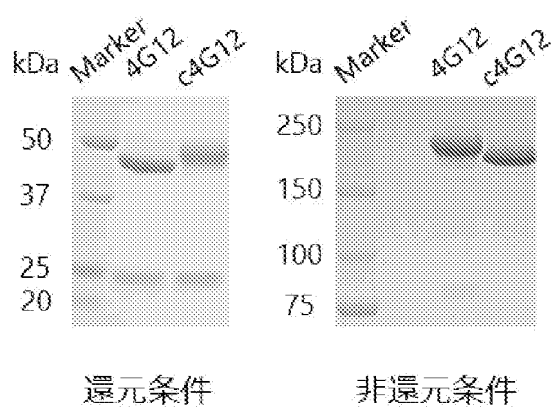
[図4]



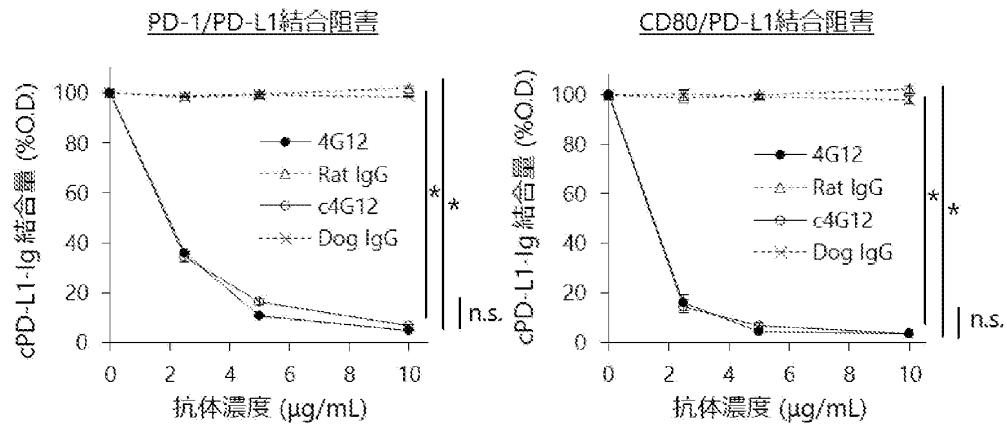
[図5]



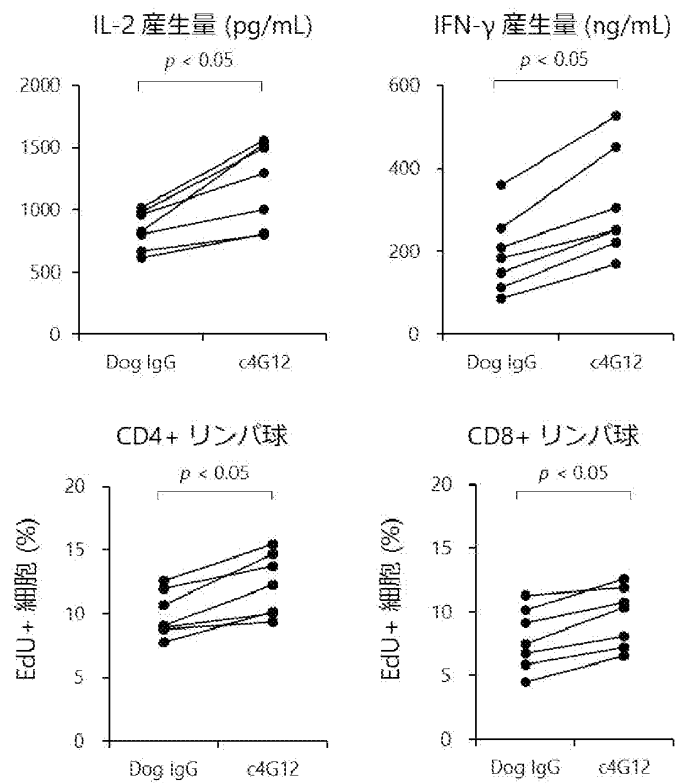
[図6]



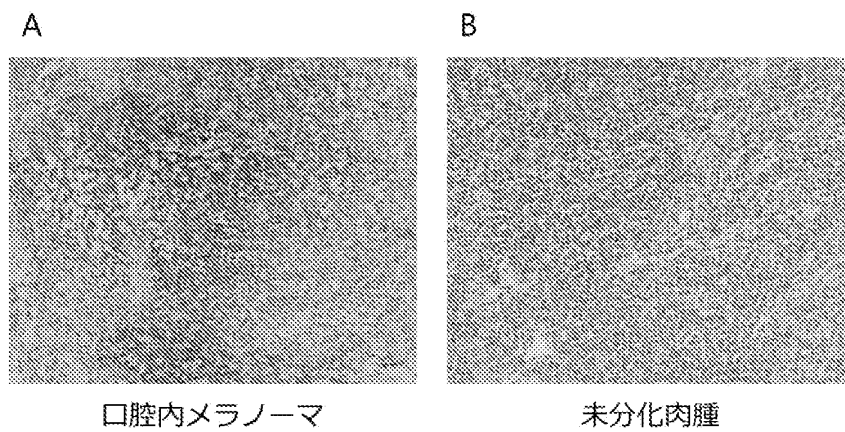
[図7]



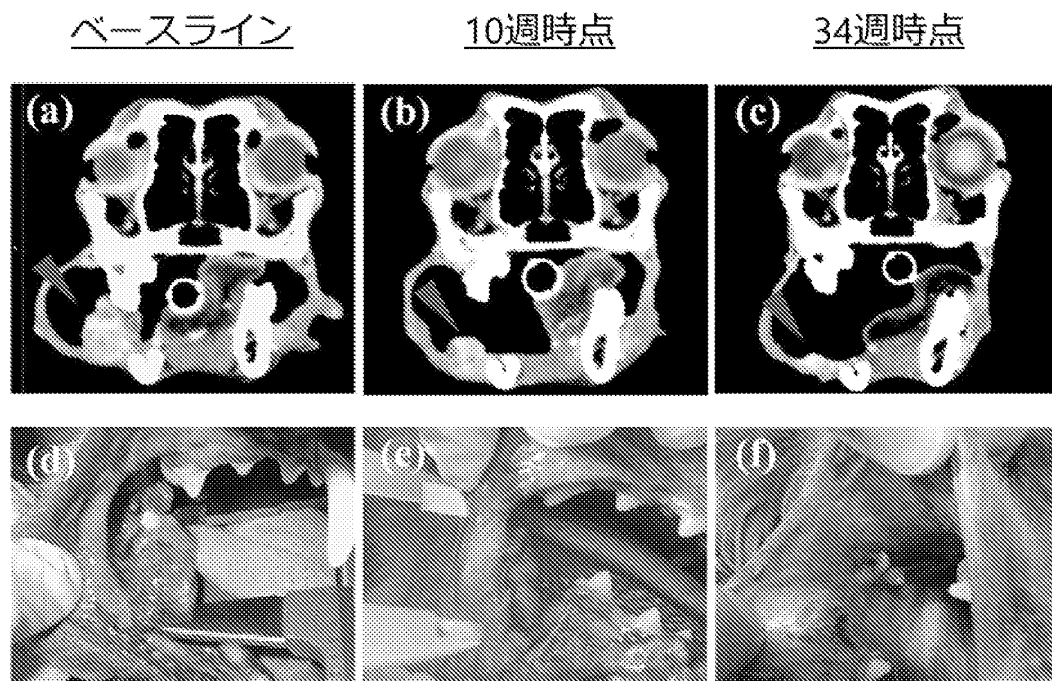
[図8]



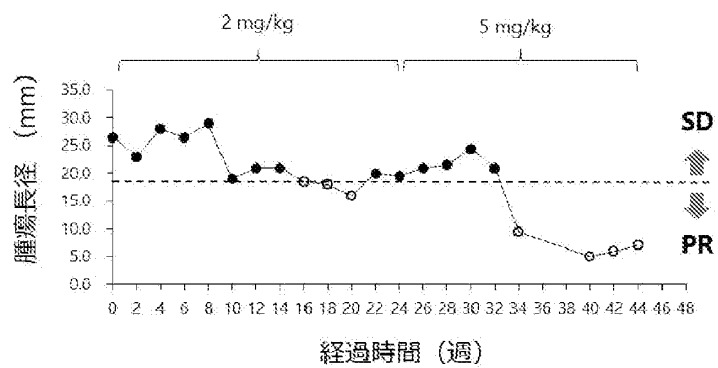
[図9]



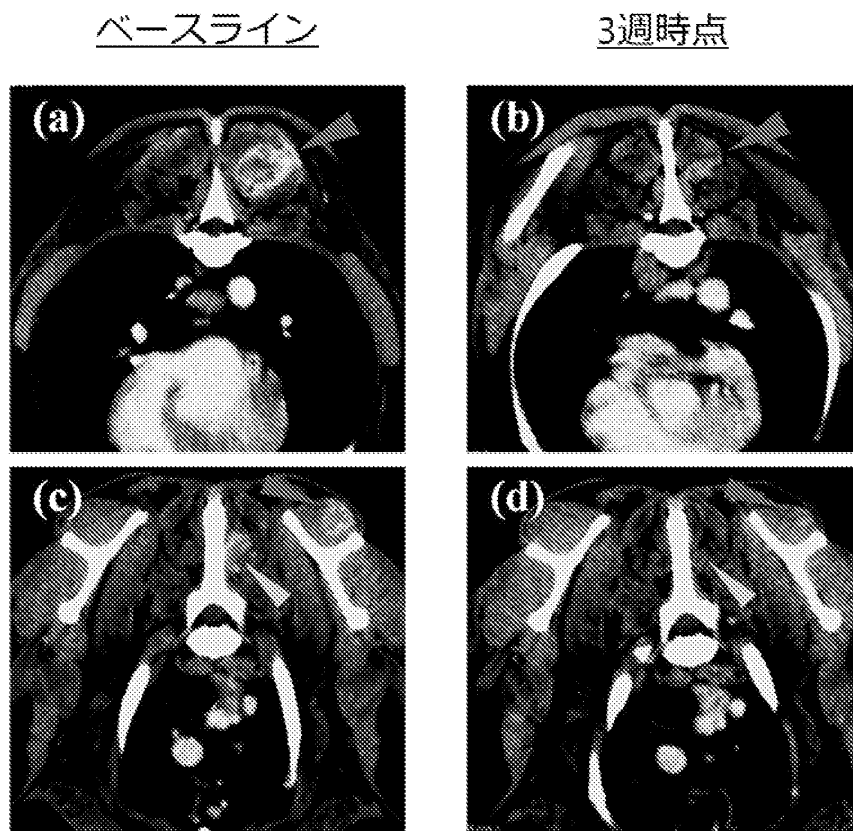
[図10]



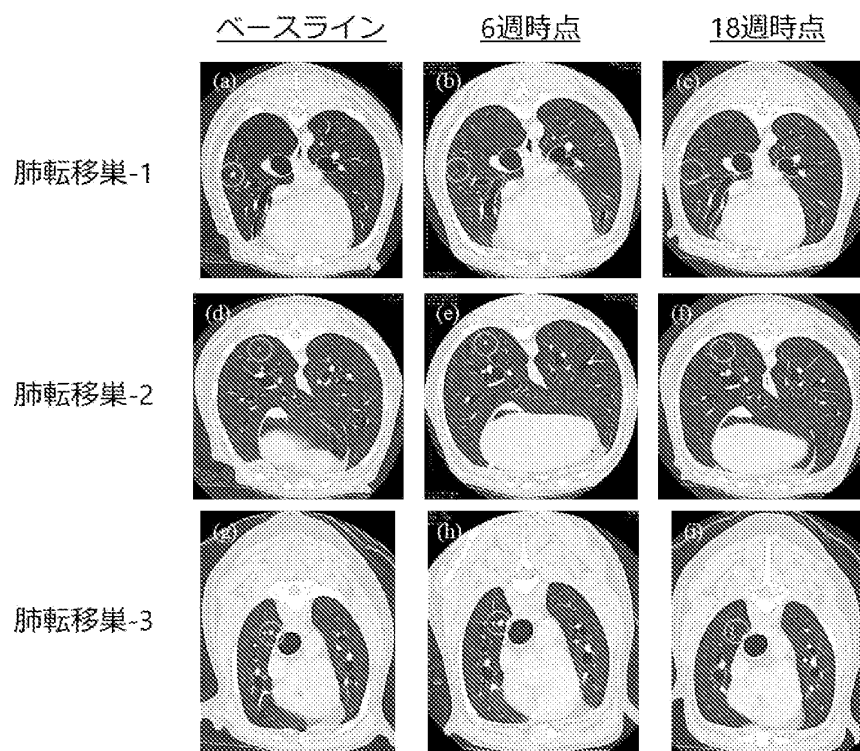
[図11]



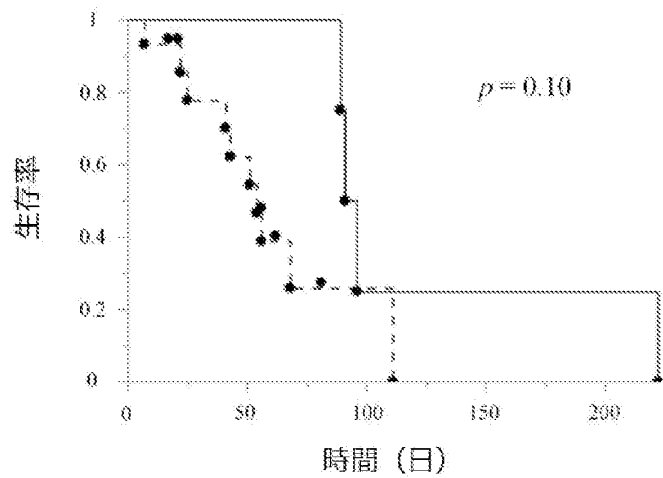
[図12]



[図13]



[図14]



[図15]

CDR1CDR2CDR3軽鎖可変領域

MESQTHVLISLLSVSGTYGDLAITQSPSSVAVSVGETVTLSCKSSQSLLYSENQKDYL
CDR1

GWYQQKPGQTPKPLIYWATNRHTGVPDRFTGSGSGTDFTLISSVQAEDLADYYC
CDR2

GQYLVYPFTFGPGTKLELK
CDR3

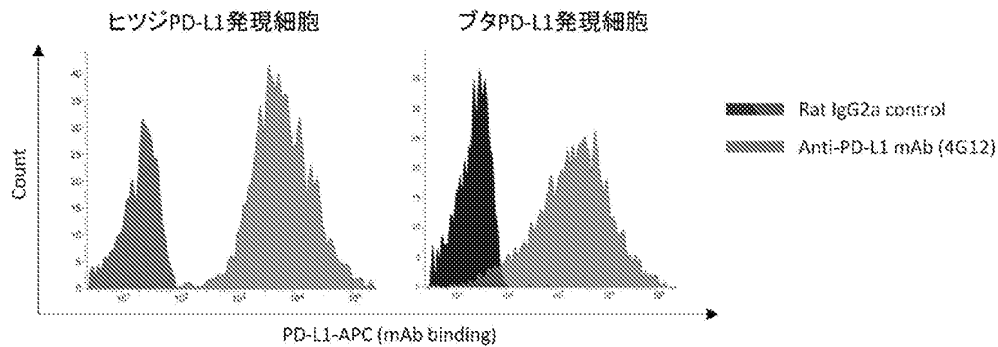
重鎖可変領域

MGWSQHILFLVAAATCVHSQVQLQQSGAELVKPGSSVKISCKASGYTFTSNFMHWV
CDR1

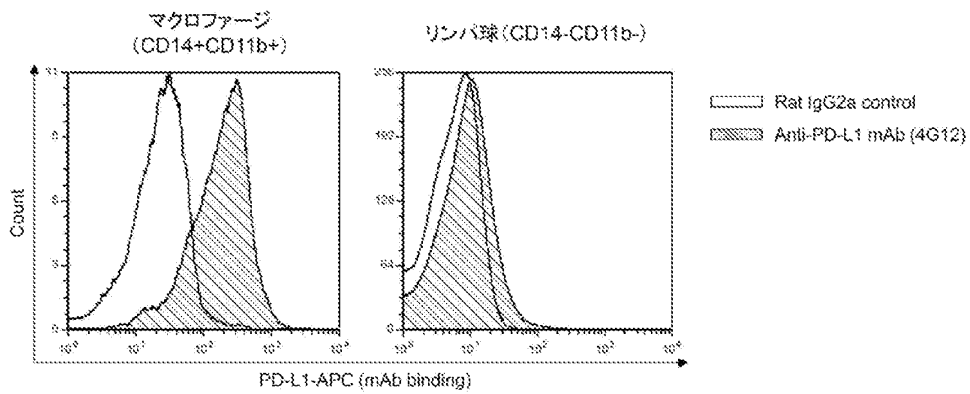
KQQPGNGLEWIGWIYPEYCN TKYNQKFDGKATLTADKSSSTAYMQLSSLTSEDSAV
CDR2

YFCASEEAVISLVYWGQGTLLTVSS
CDR3

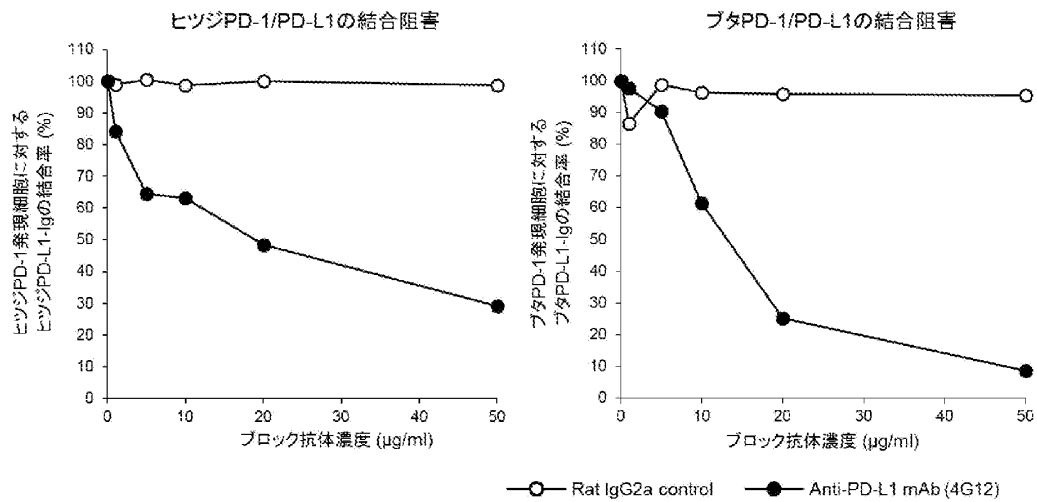
【図16】



【図17】



【図18】



[図19]

軽鎖

斜体：可変領域配列（太字下線部：NH2 末端から順に CDR1, CDR2, CDR3）

正体：定常領域配列（ウシ Ig lambda, GenBank: X62917）

*MESQTHVLISLLLSVSGTYGDIATQSPSSVAVSVGETVTL****SCKSSQSLLYSENQKDYL***
*GWYQQKPGKQTPKPLIYWATNRHTGVPDRFTGSGSGTDFTLI****SSVQAEDLADYYCG***
QYLVYPFTFGPGTKLELKQPKSPPSVTLFPPSTEELNGNKATLVCLISDFYPG***SVTVV***
WKADGSTITRNVETTRASKQSNKYAASSYLSLTSSDWKSKGSYSCEVTHEGSTVTK
*TVKPSECS**

重鎖

斜体：可変領域配列（太字下線部：NH2 末端から順に CDR1, CDR2, CDR3）

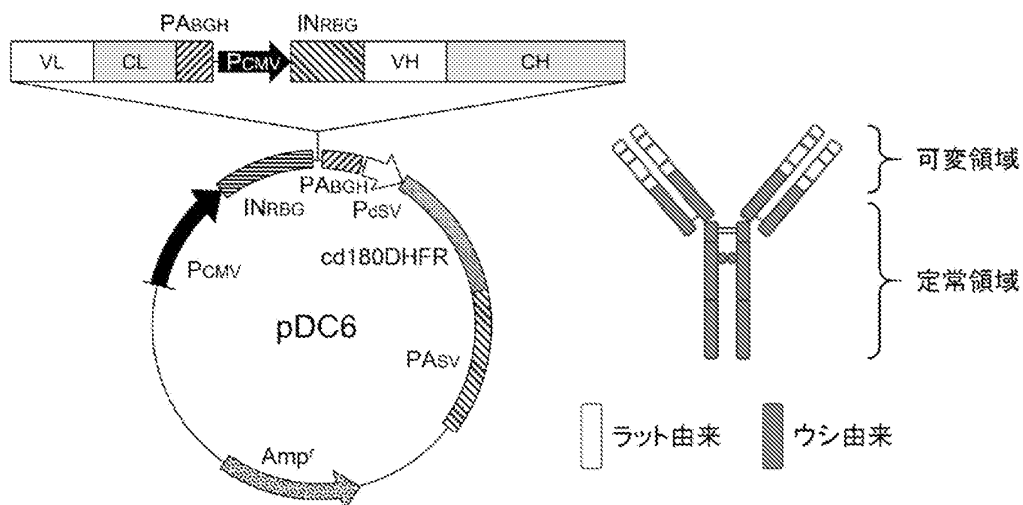
正体：定常領域配列（ウシ IgG1, GenBank: X62916 を改変）

二重下線：ウシ IgG1（CH2 ドメイン）に変異を加えたアミノ酸

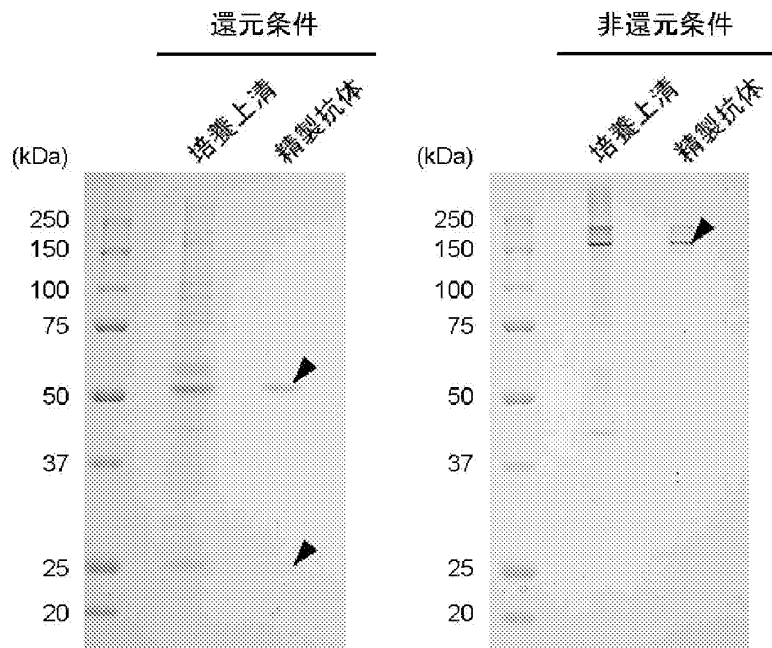
（アミノ酸番号および変異：250 E→P, 251 L→V, 252 P→A, 253 G→deletion, 347 A→S, 348 P→S）

*MGWSQHILFLVAAATCVHSQVQLQQSGAELVKPGSSVKISCKAS****GYTFTSNFMHWV***
*KQQPGNGLEWIGWI****YPEYGNTKYNQKFDGKATLTADKSSSTAYMQLSSLTSEDSAV***
*YFC****ASEEAVISLVYWGGTLVT******VSSASTTAPKVYPLSSCCGDKSSSTVT******LGCLVSSYM***
PEPVTVTWNSGALKSGVHTFPAVLQSSGLYSLSSMVTVPGSTSGQTFTCNVAHPASS
TKVDKAVDPTCKPSPDCDCPPPPVAGPSVFIFPPKPKDTLTISGTPEVTCVVVDVGH
DPEVKFSWFDVDDVEVNTATTKPREEQFNSTYRVVSALRIHQDWTGGKEFKCKVH
*NEGLP****SSIVRTISRTKGPAREPQVYVLAPPQEELSKSTVSLTCMVT******SFYPDYIAVEWQ***
*RNGQPESEDKYGTTPPQLDADSSYFLYSKLRVDRNSWQEGD****TYTCVVMHEALHNH***
*YTQKSTSKSAGK**

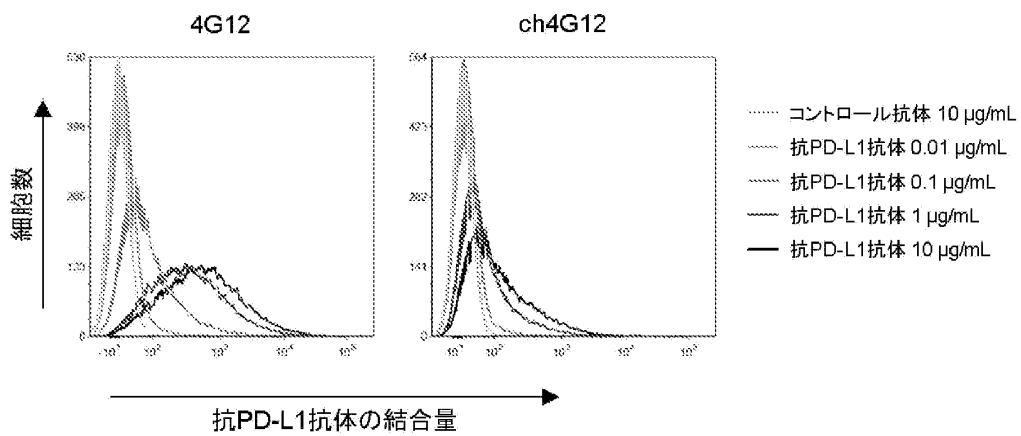
[図20]



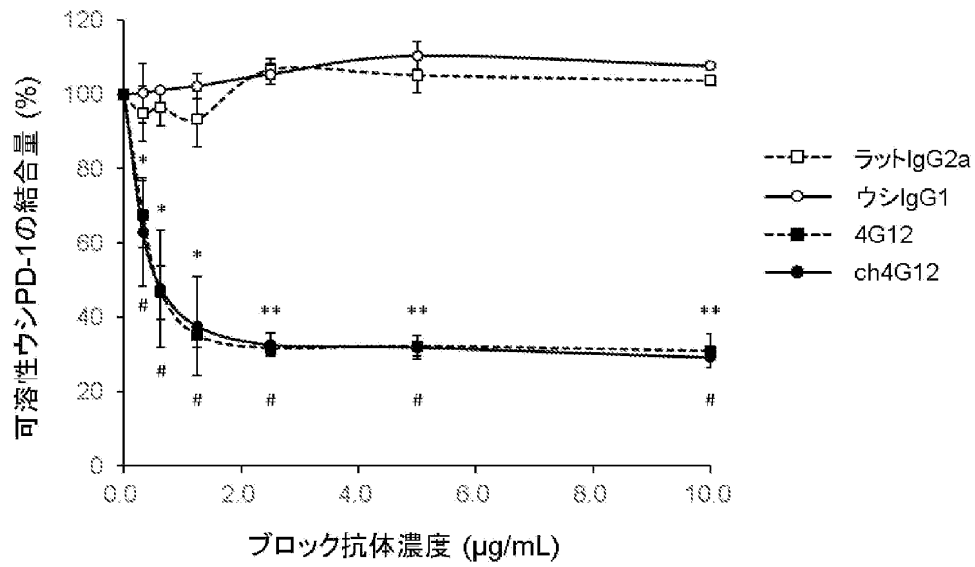
[図21]



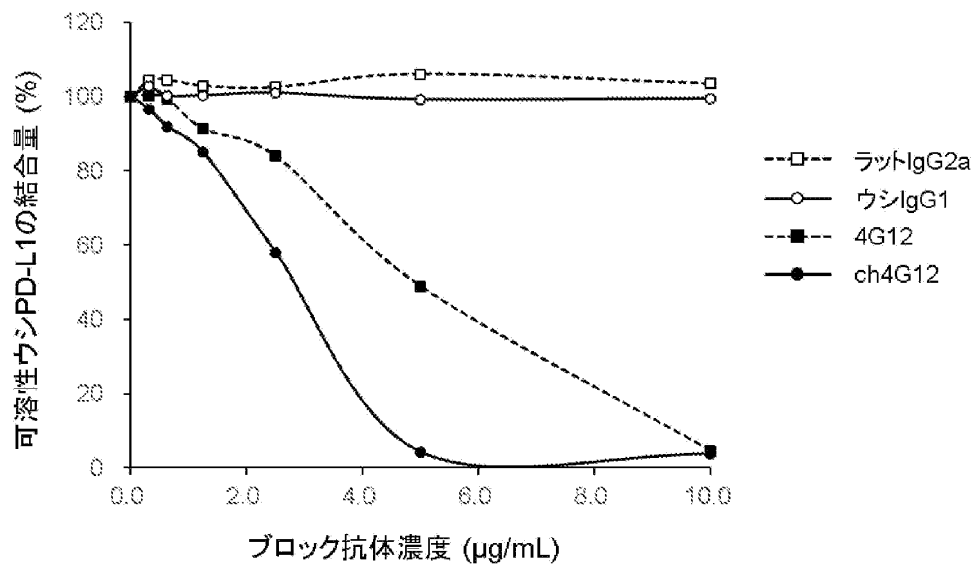
[図22]



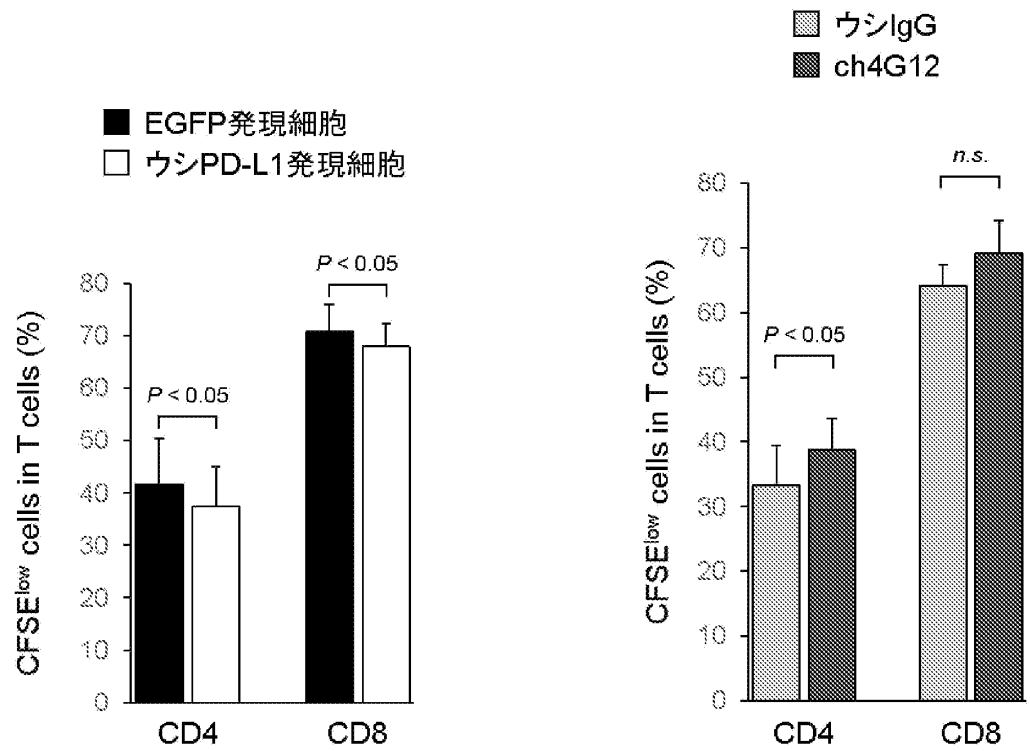
[図23]



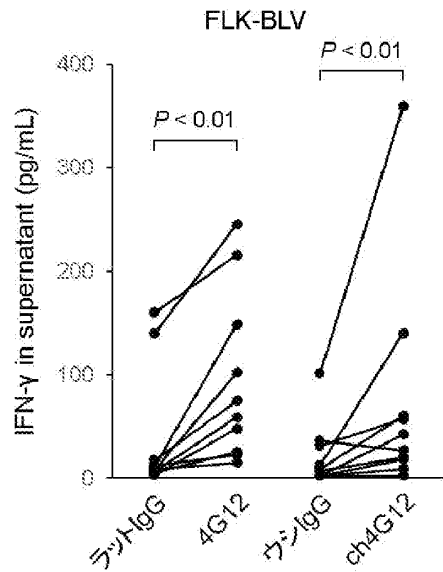
[図24]



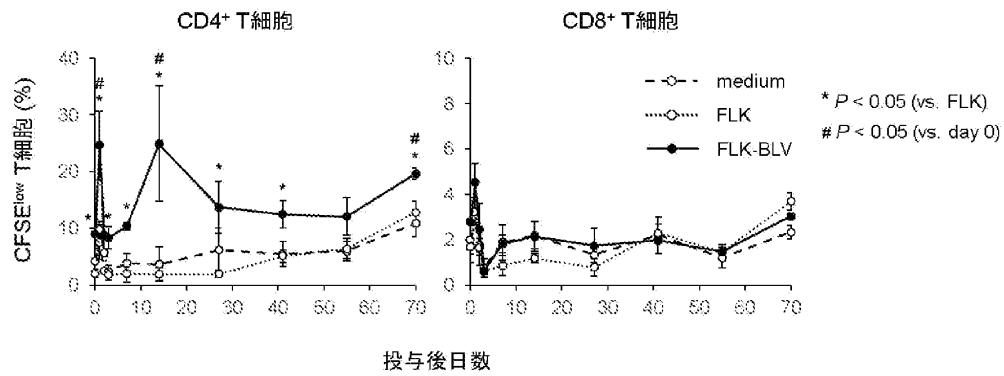
[図25]



[図26]



[図27]



[図28]

