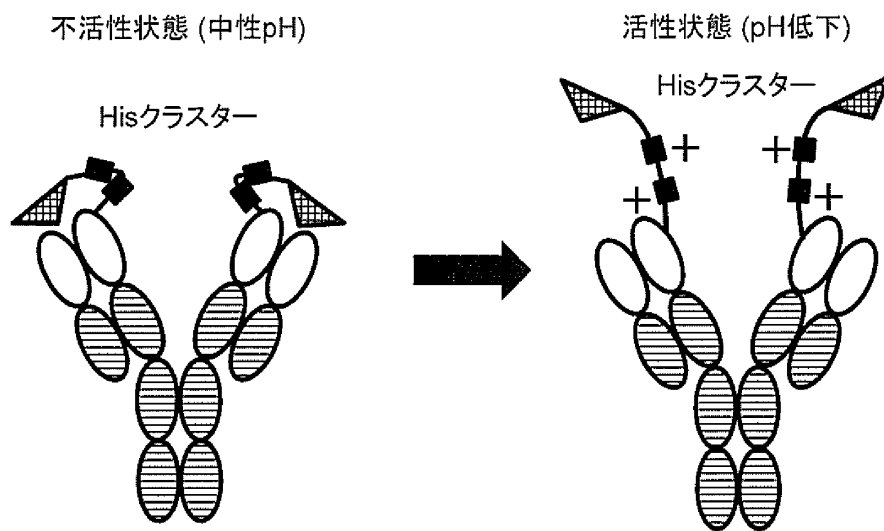
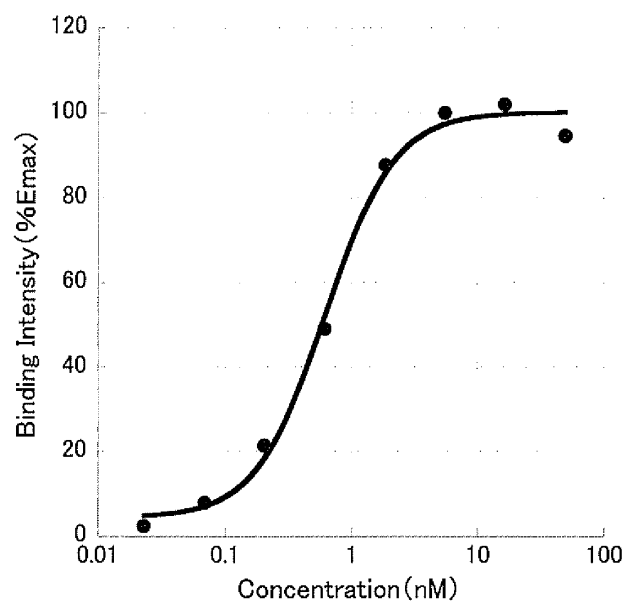


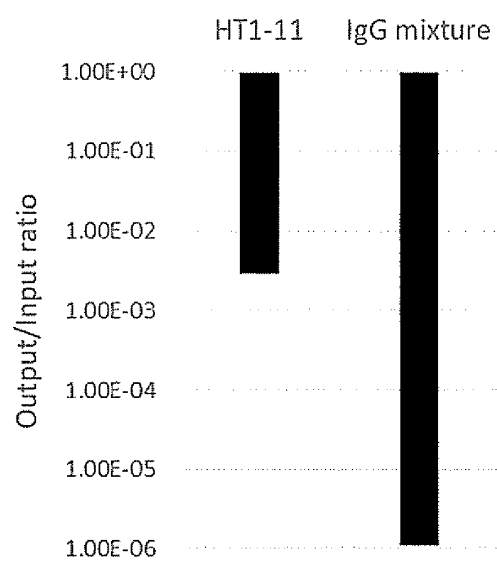
[図1]



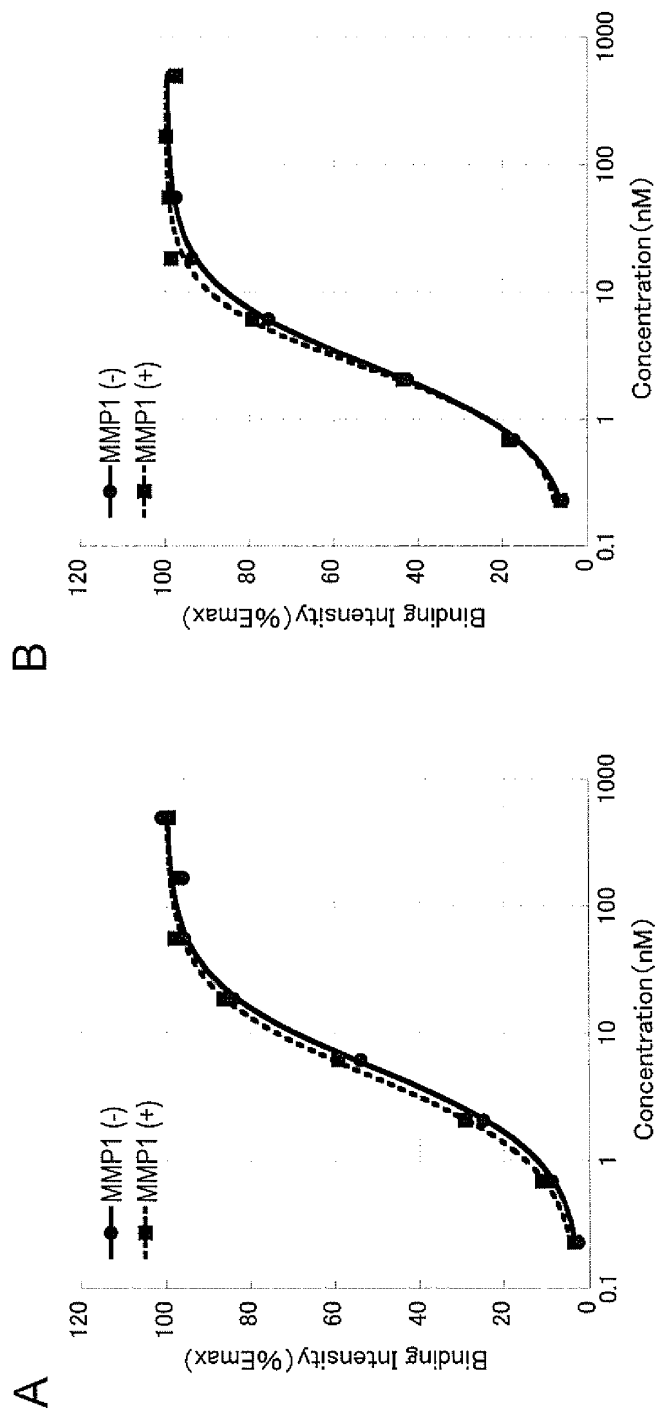
[図2]



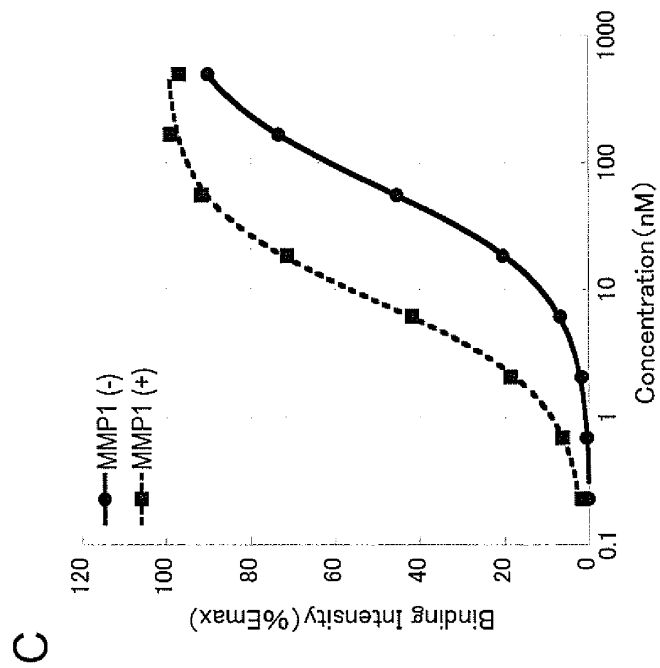
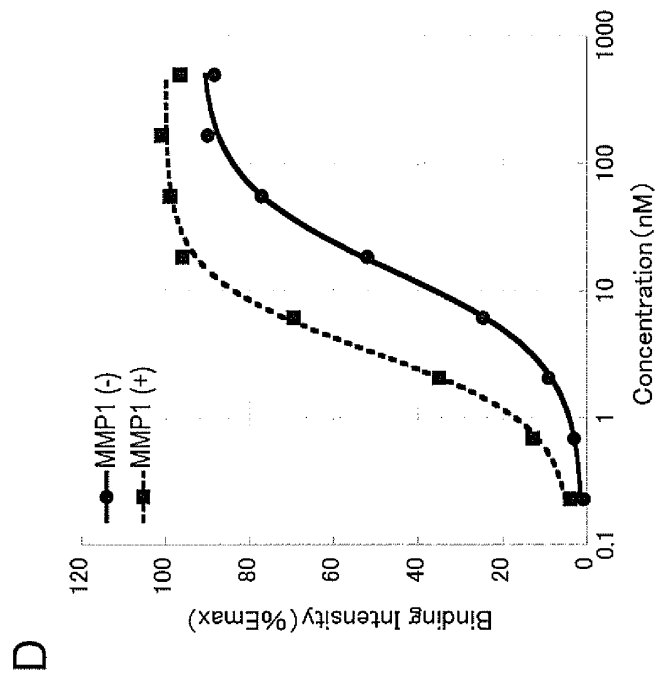
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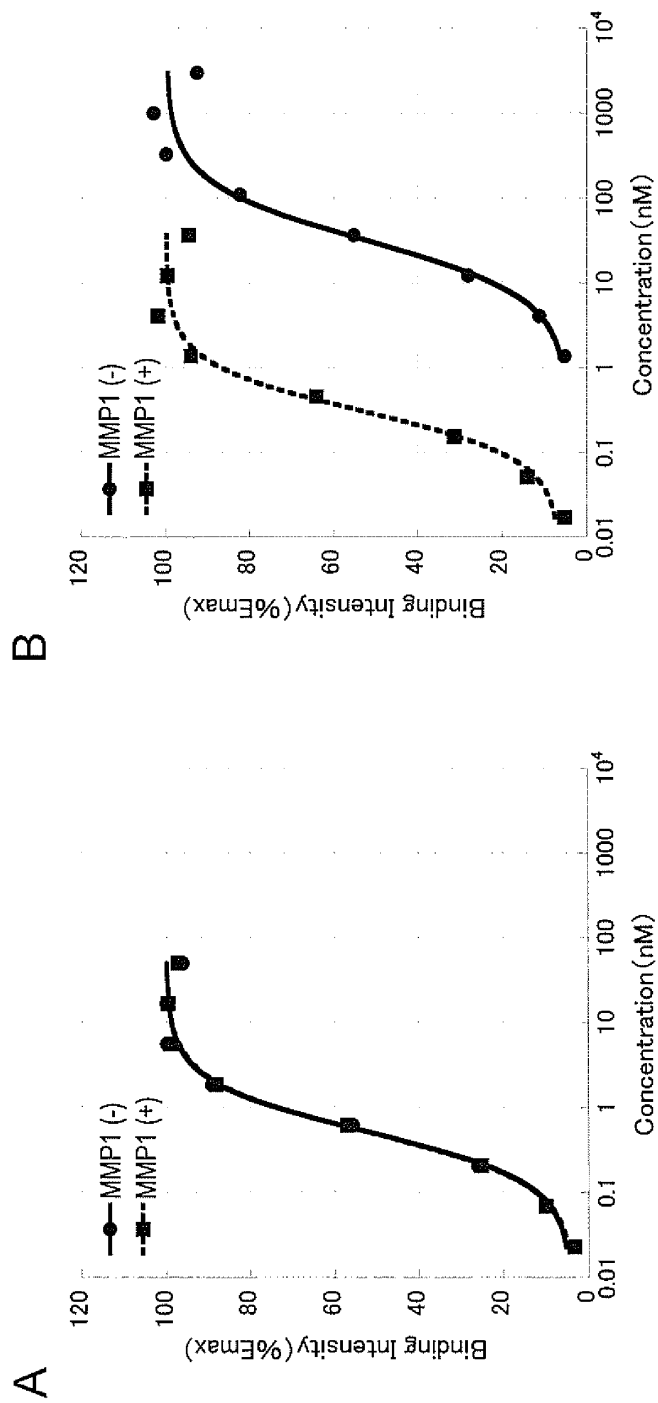
[図4-1]



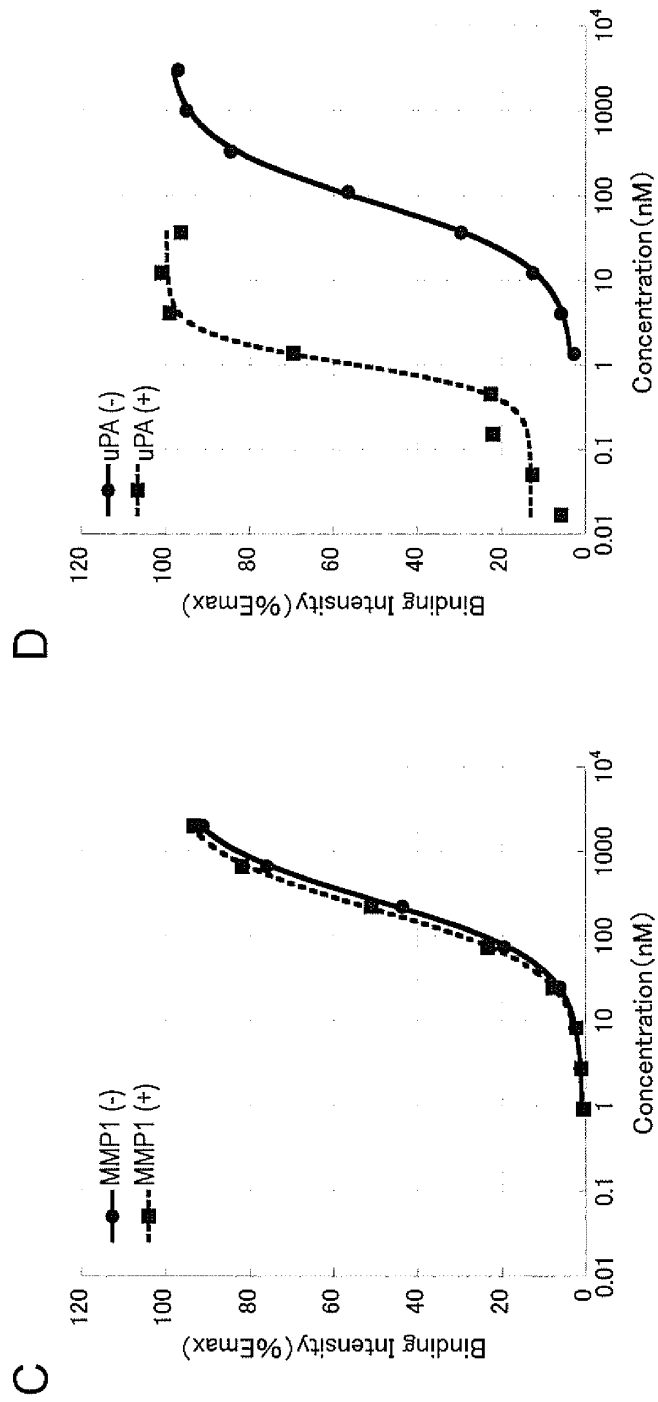
[図4-2]



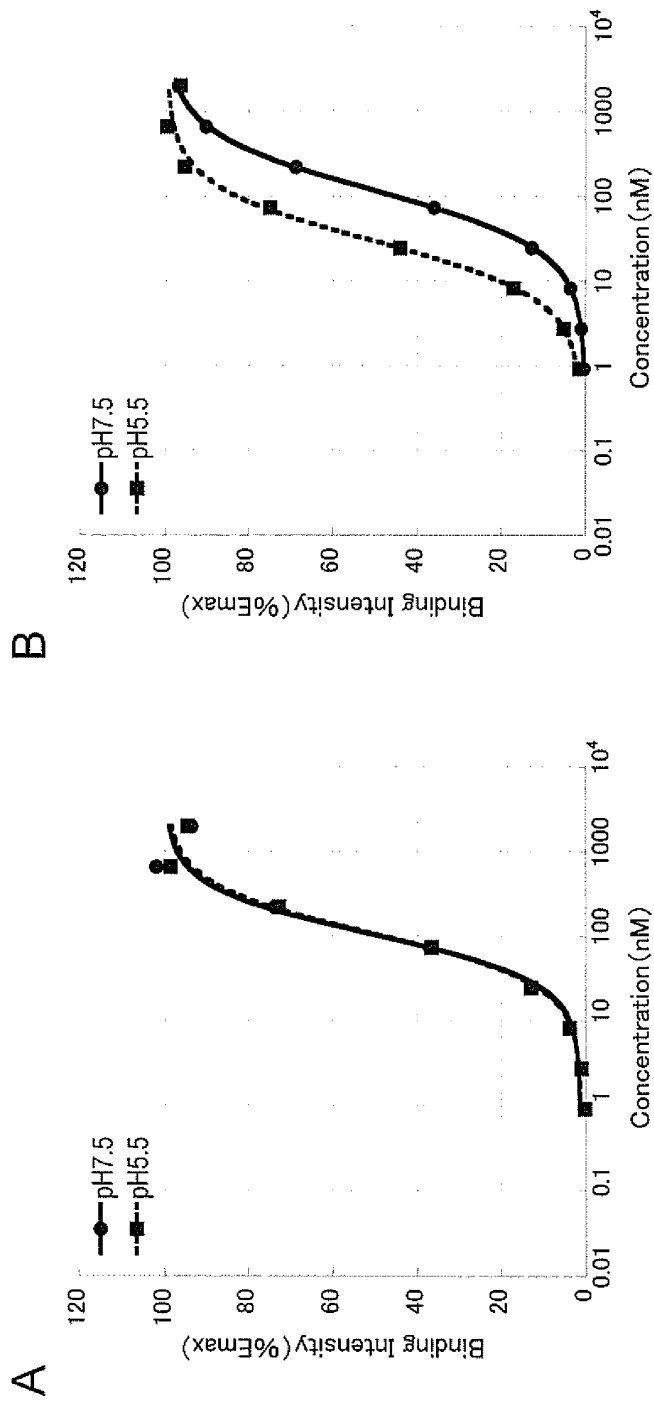
[図5-1]



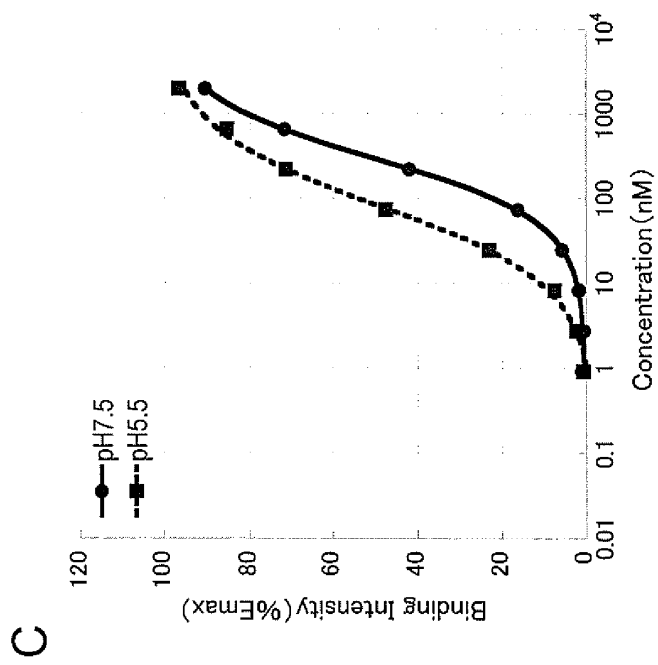
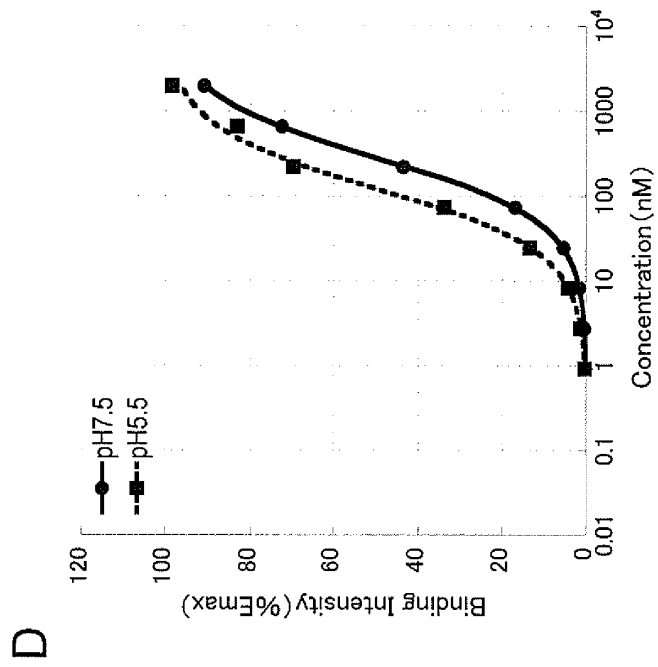
[図5-2]



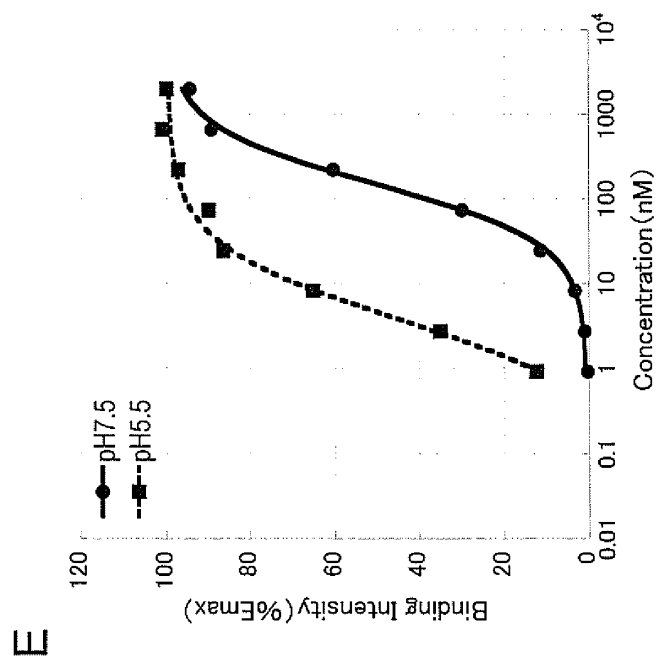
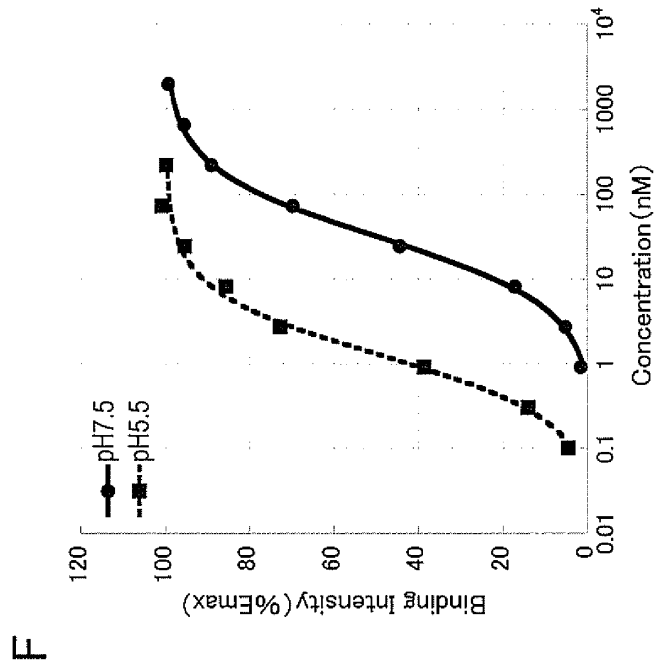
[図6-1]



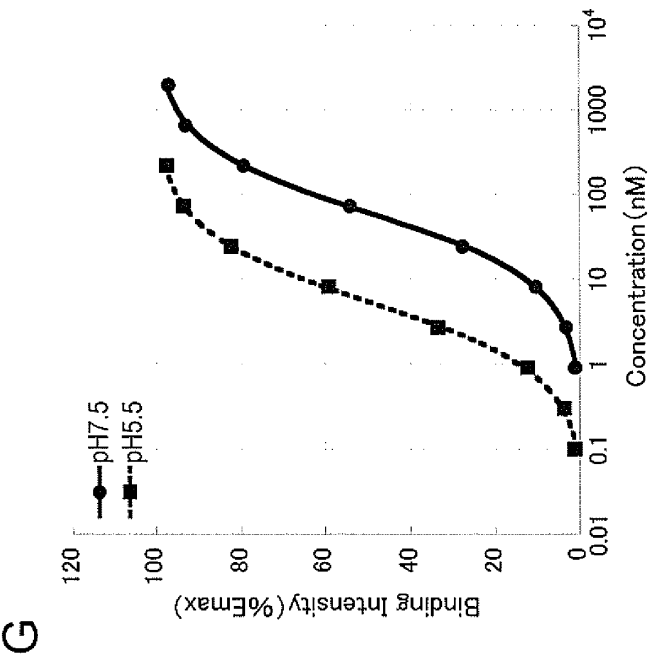
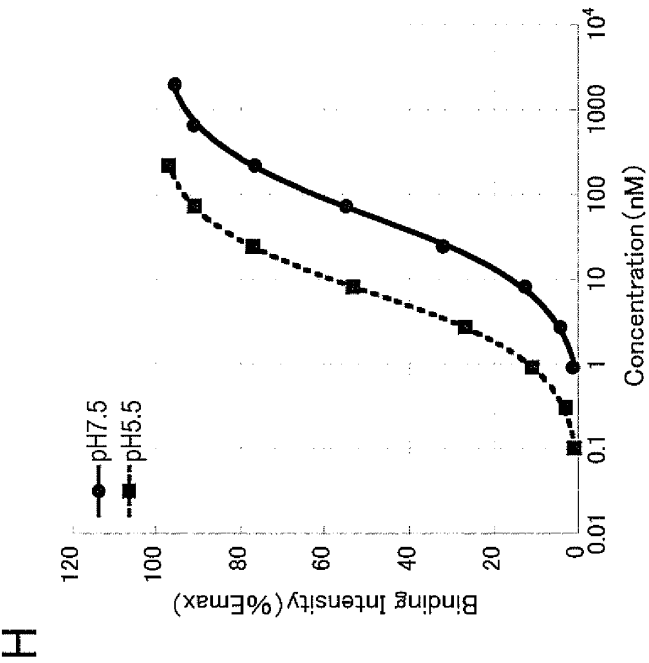
[図6-2]



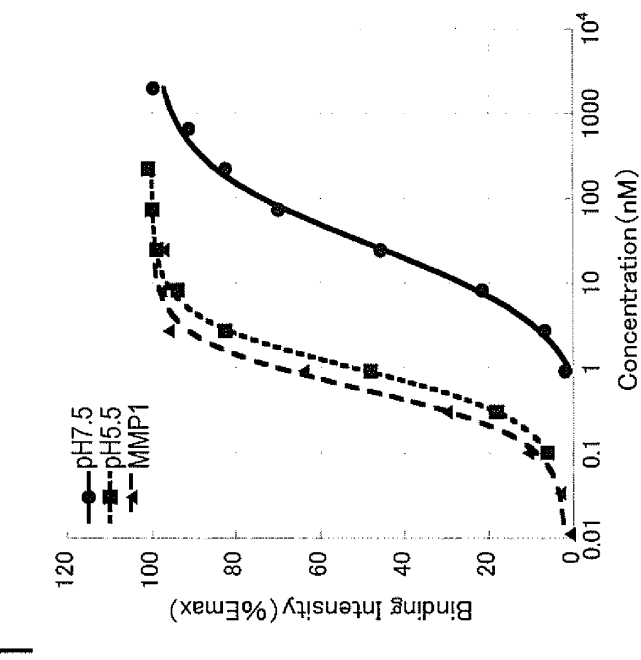
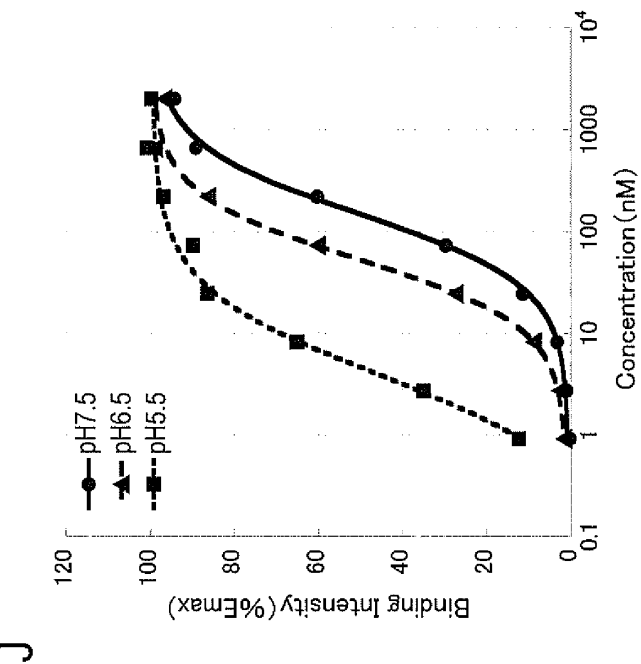
[図6-3]



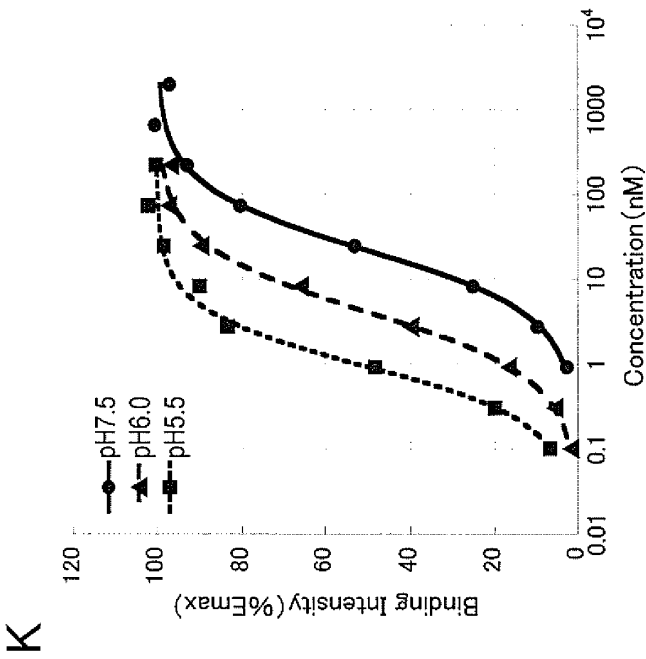
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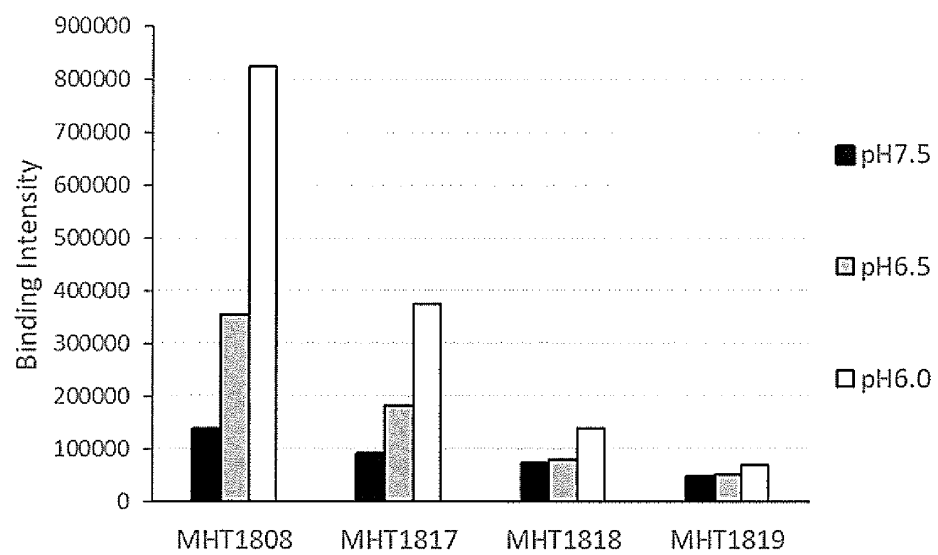
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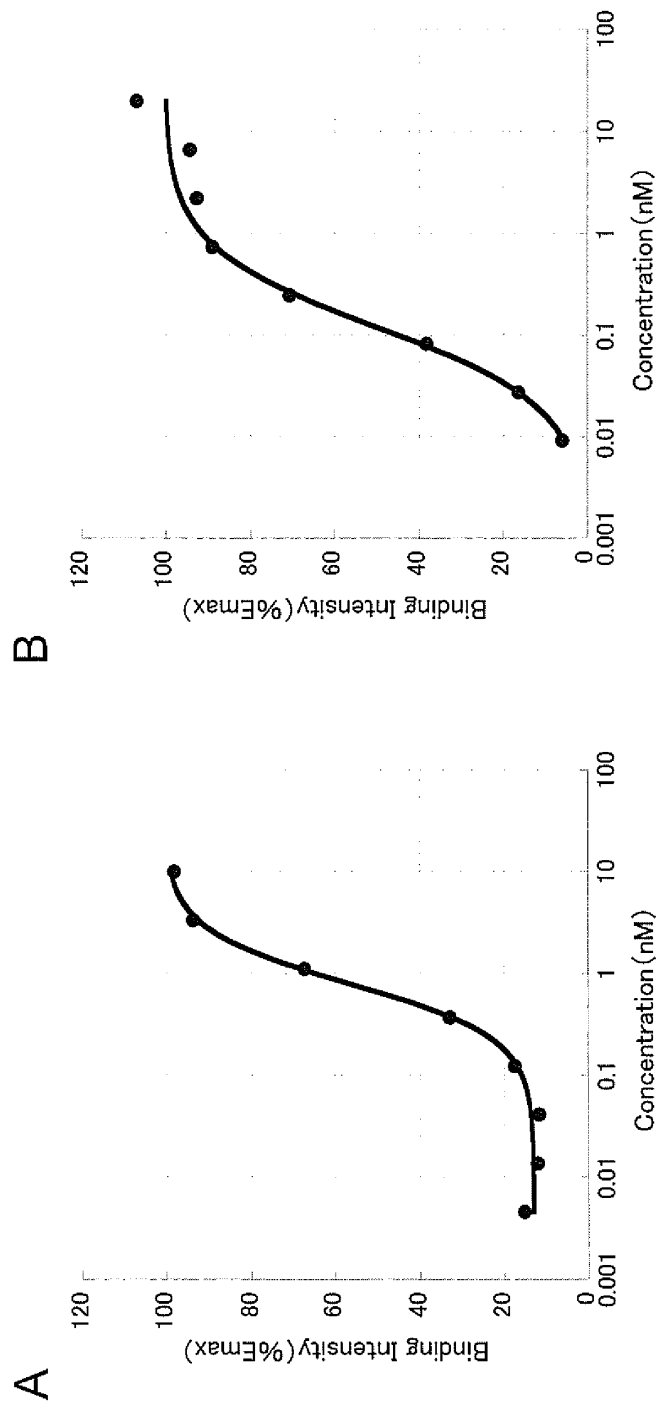
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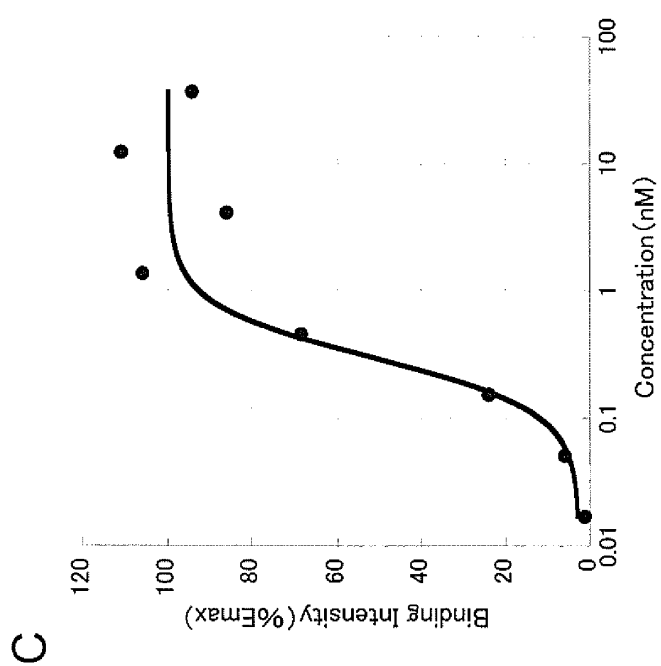
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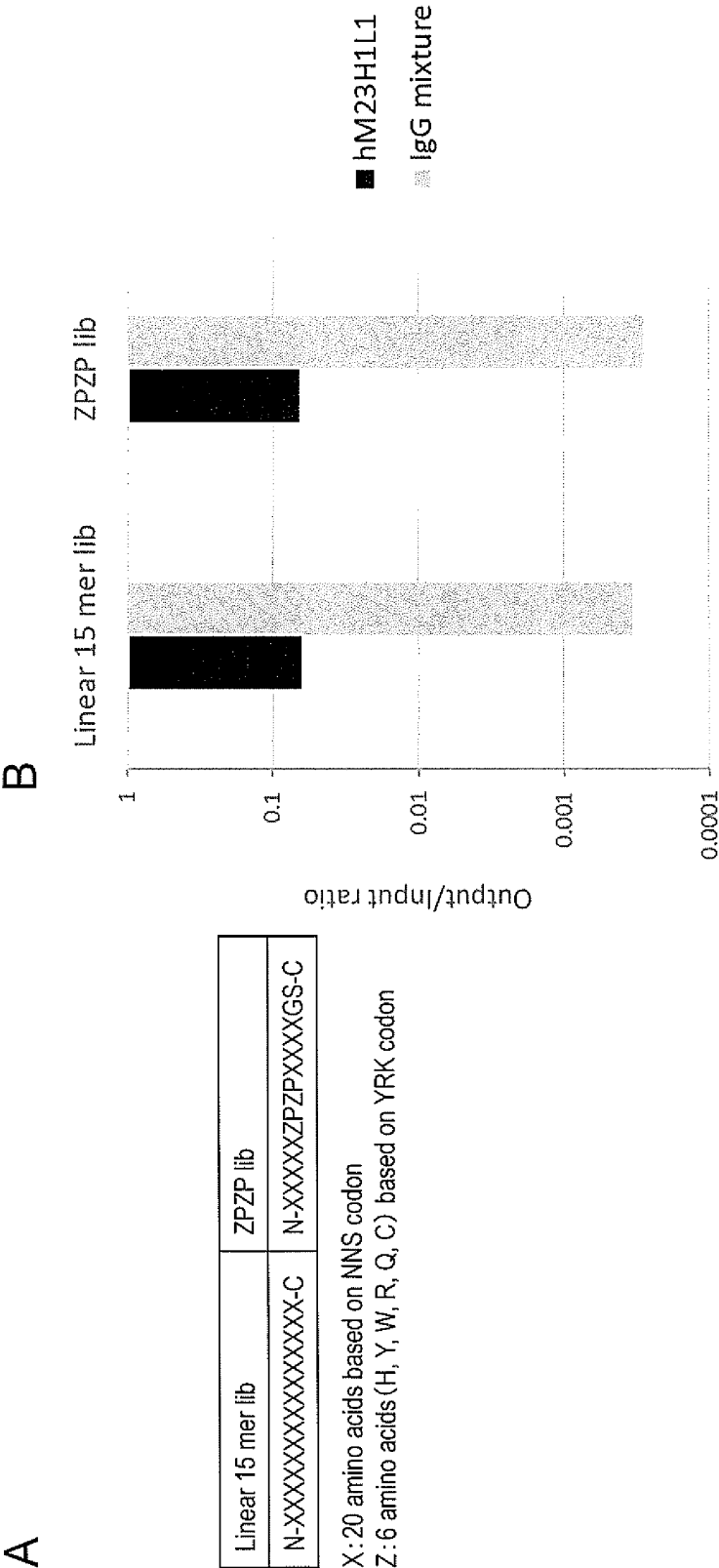
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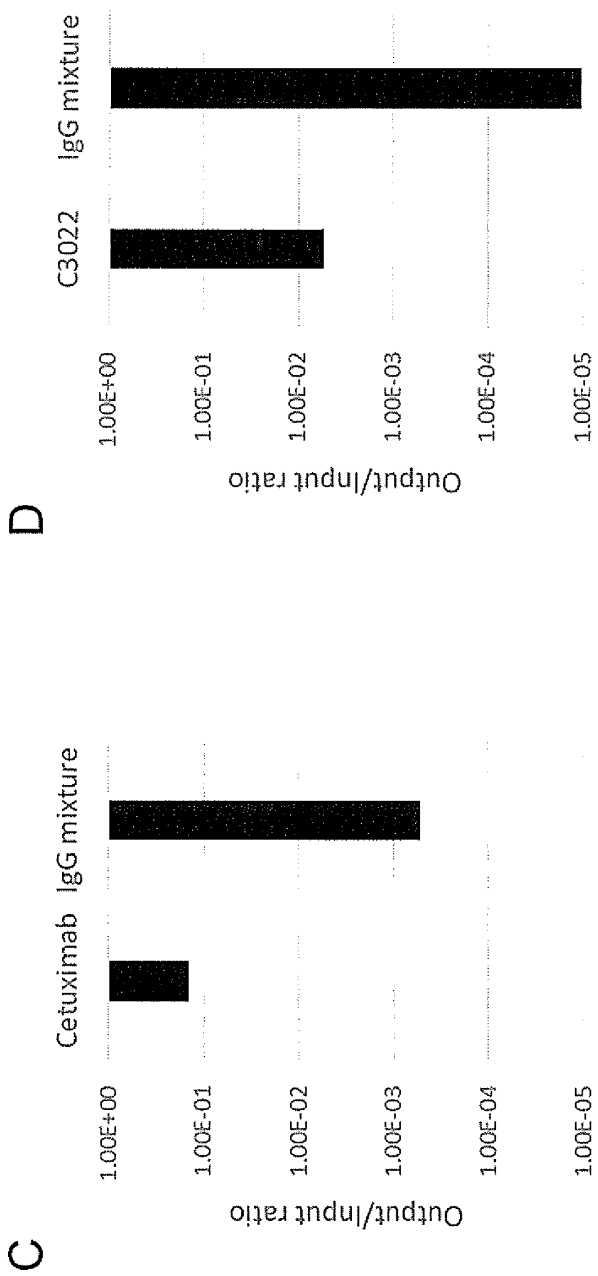
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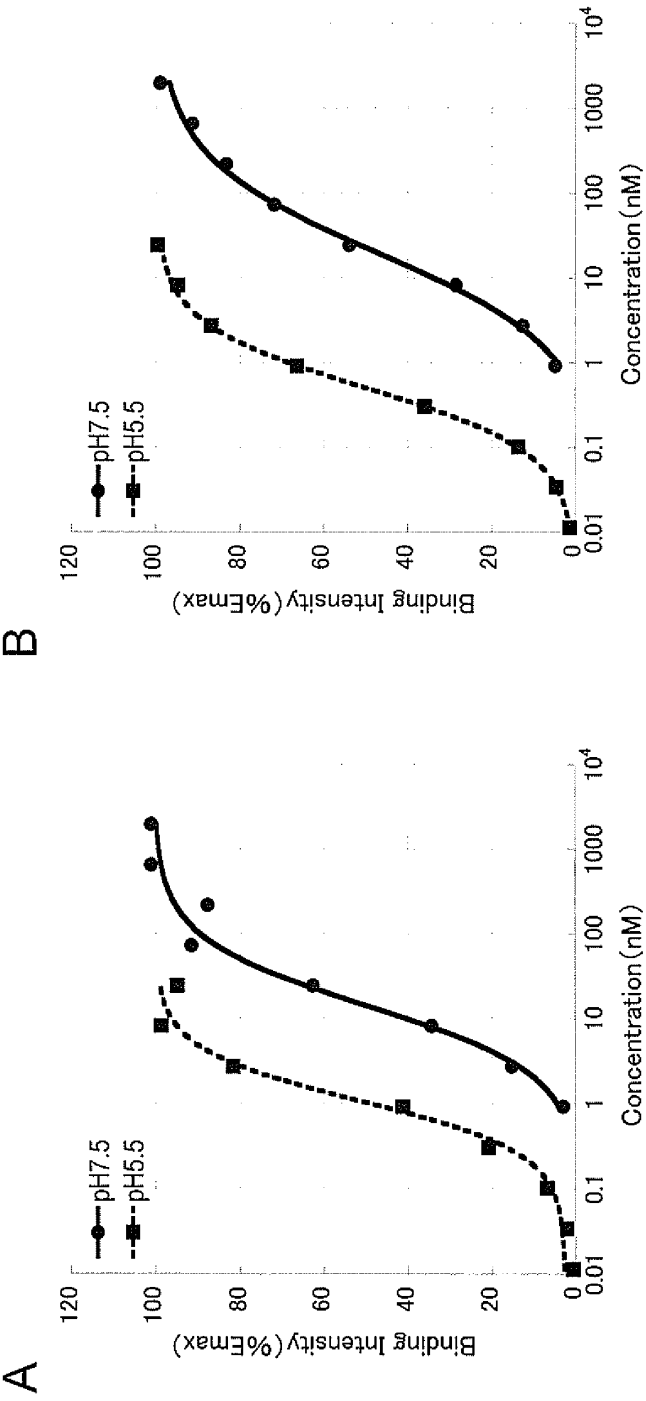
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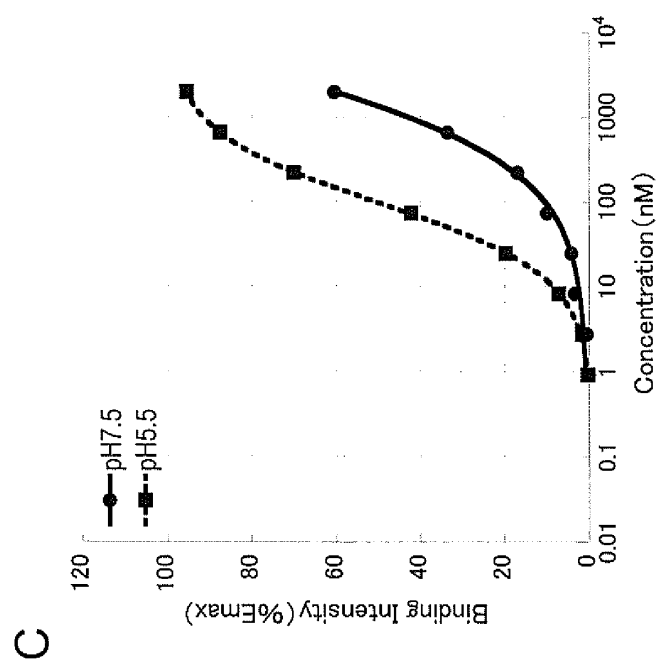
[図9-2]



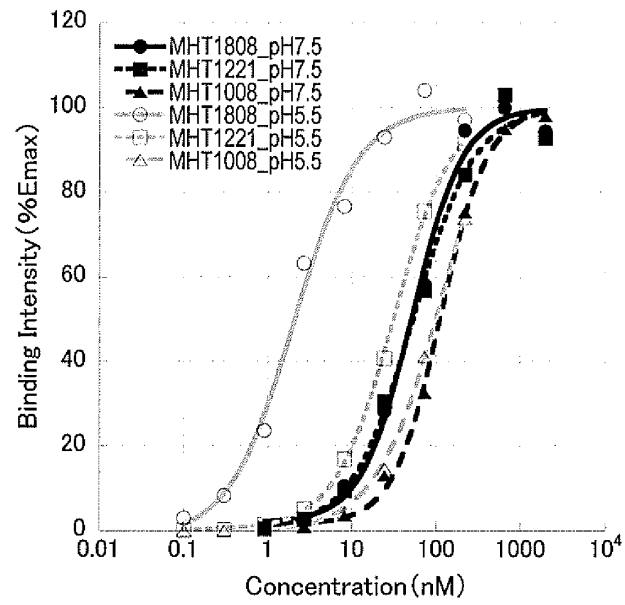
[図10-1]



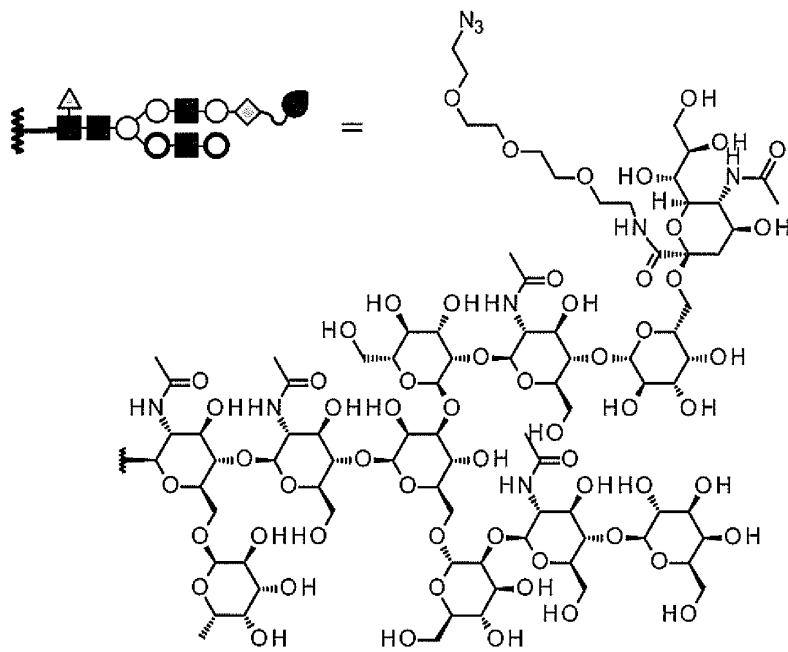
[図10-2]



[圖11]

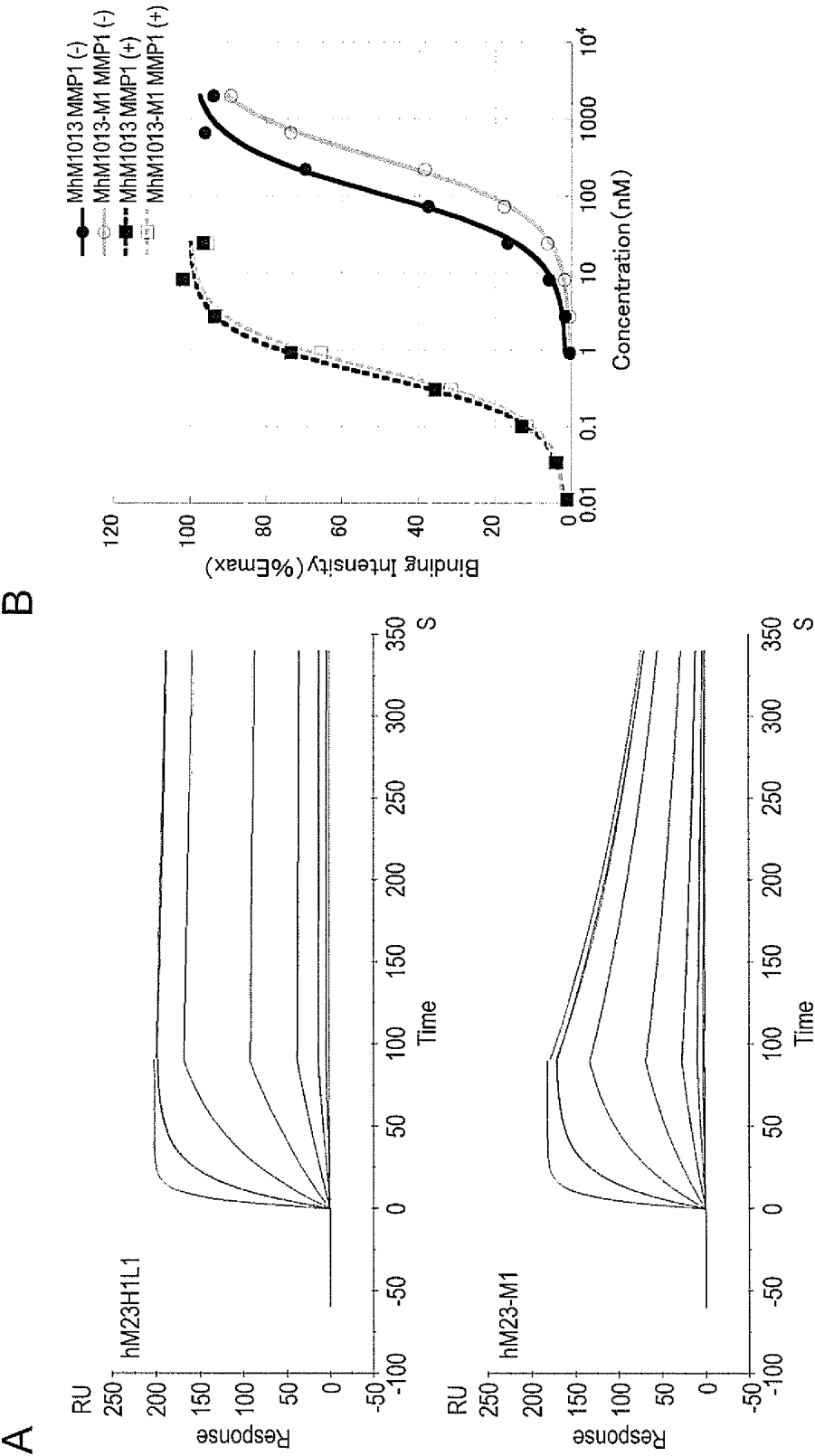


[圖12]

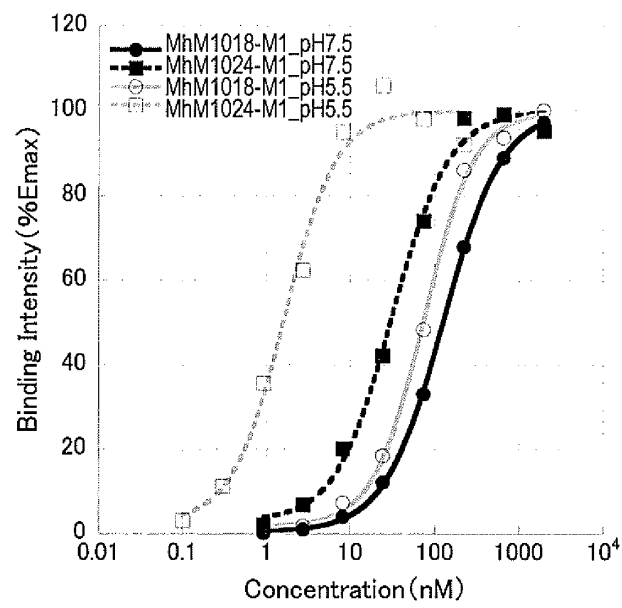


N297糖鎖構造式

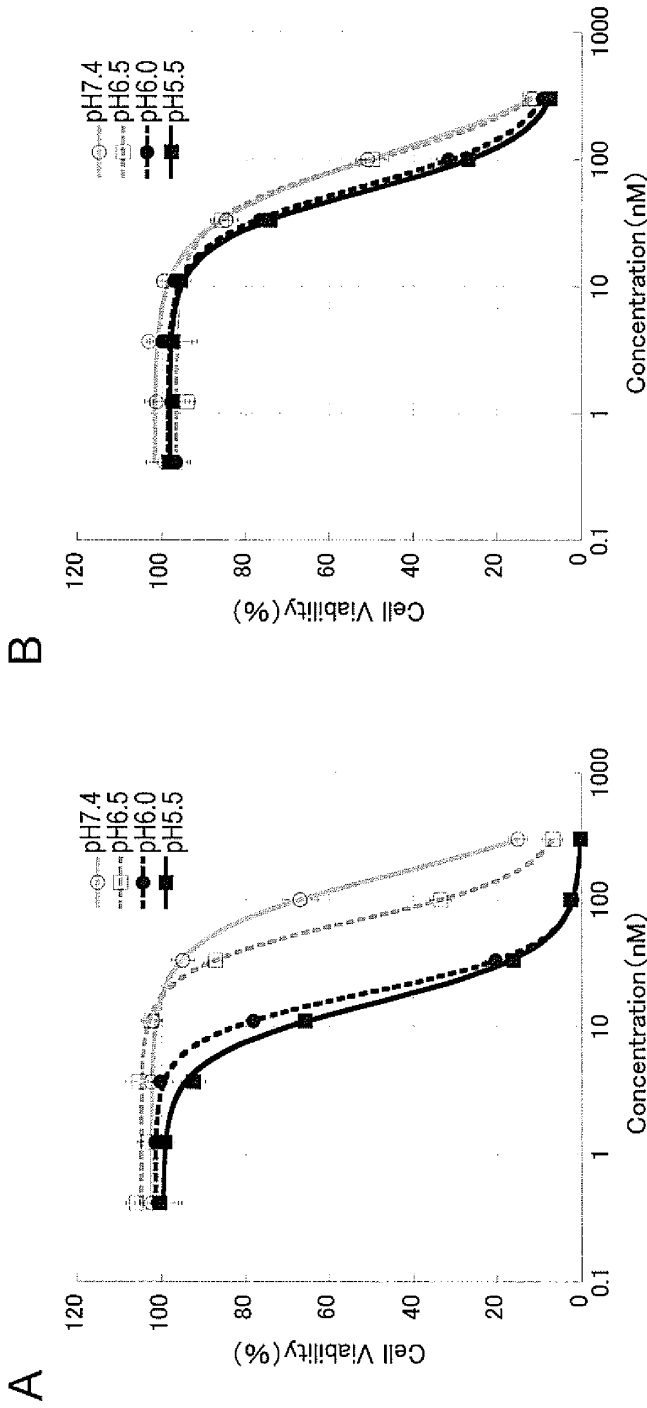
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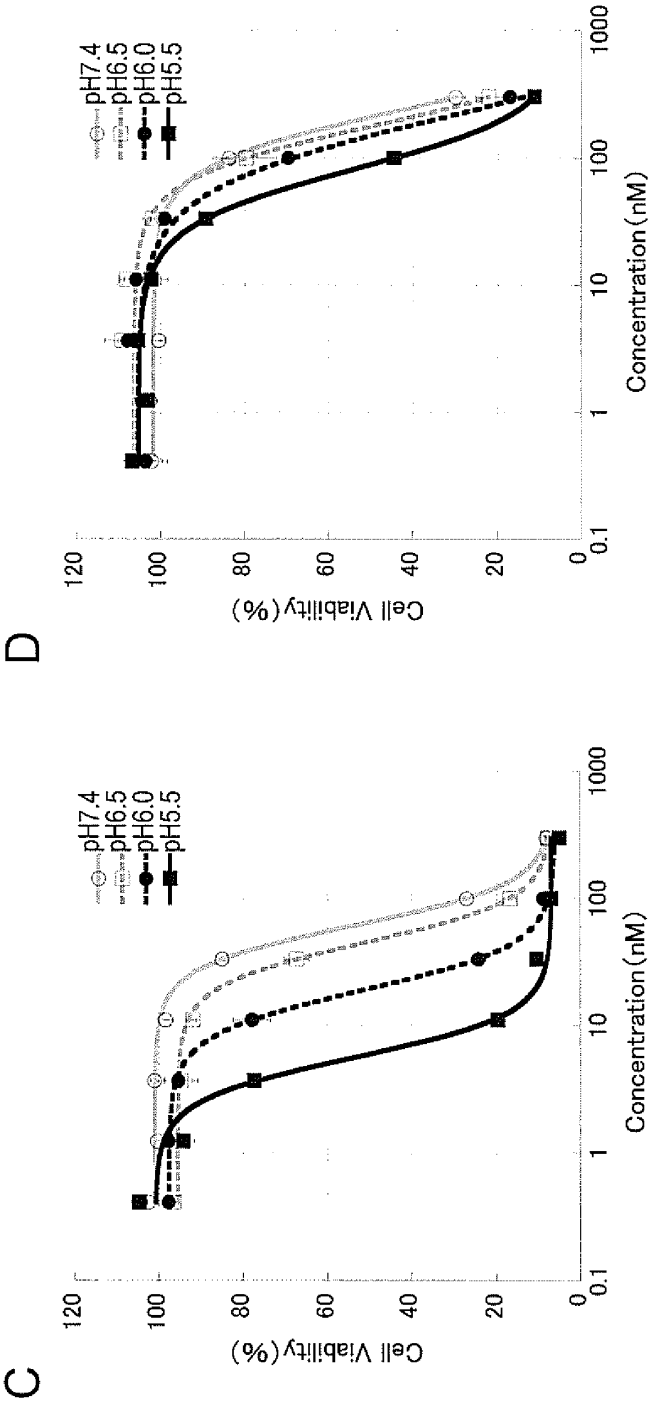
[図14]



[図15-1]



[図15-2]



[図16]

HT1-11 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSQVQLVQSGAEVKKPGASVKVSCKASGYTFTTAGMQWV
 RQAPGQGLEWMGWINTHSGVPKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAV
 YYCARSGFGSSYWFYFDVWGQGTLLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCL
 VKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICN
 VNHKPSNTKVDKRVPEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPE
 VTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDW
 LNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWEESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFC
 SVMHEALHNHYTQKSLSLSPGK

(配列番号1) シグナル配列 (1-19)、抗体重鎖配列 (20-470)

[図17]

HT1-11 L鎖全長のアミノ酸配列

MVLQTQVFISLLLLWISGAYGDIQMTQSPSSLSASVGDRVTITCKASQDVSTAVAWY
 QQKPGKAPKLLIYSASYRYTGVPSTRFSGSGSGTDFTLTISLQPEDFAVYYCQQHY
 ITPLTFGQGTKLEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQW
 KVDNALQSGNSQESVTEQDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSP
 VTKSFNRGEC

(配列番号2) シグナル配列 (1-20)、抗体軽鎖配列 (21-234)

[図18]

MHT1001全長のアミノ酸配列

MKYLLPTAAAGLLLLAAQPAMAAMGYLALKHPWPGLAENSGSGGGGSLVPMAMMA
 SGGSDVNSQVQLVQSGAEVKKPGASVKVSCKASGYTFTTAGMQWVRQAPGQGLEWM
 GWINTHSGVPKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSGFGSS
 YWFYFDVWGQGTLLVTVSSGGGGSGGGSGGGGSDIQMTQSPSSLSASVGDRVTITCK
 ASQDVSTAVAWYQQKPGKAPKLLIYSASYRYTGVPSTRFSGSGSGTDFTLTISLQPE
 DFAVYYCQQHYITPLTFGQGTKLEIKRGAPSGDYKDDDDKGAHHHHHHH

(配列番号3) シグナル配列 (1-23)、ミモトープペプチド (24-40)、MMP切断リン
 カー (41-60)、HT1-11-scFv-HL (65-308)、FLAG-Hisタグ (309-331)

[図19]

MHT1002全長のアミノ酸配列

MKYLLPTAAAGLLLLLAAQPAMAAMGYLALKHPWPGLAENSGSGGGGSVLVPMAMMA
SGGSDVNSDIQMTQSPSSLSASVGDRVTTITCKASQDVSTAVAWYQQKPGKAPKLLI
YSASYRYTGVPSTRFSGSGSGTDFTLTISLQPEDFAVYYCQQHYITPLTFGQGTKL
EIKRGGGGSGGGGSGGGGSQVQLVQSGAEVKKPGASVKVSCKASGYTFITAGMQWV
RQAPGQGLEWMGWINTHSGVPKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAV
YYCARSFGSSYWFYFDVWGQGTLVTVSSGAPSGDYKDDDDKGAAAHHHHHH
(配列番号4) シグナル配列 (1-23)、ミトープペプチド (24-40)、MMP切断リン
カー (41-60)、HT1-11-scFv-LH (65-308)、FLAG-Hisタグ (309-331)

[図20]

HT1-11-scFv-HL全長のアミノ酸配列

MKYLLPTAAAGLLLLLAAQPAMAADVNSQVQLVQSGAEVKKPGASVKVSCKASGYTF
ITAGMQWVRQAPGQGLEWMGWINTHSGVPKYAEDFKGRVTISADTSTSTAYLQLSS
LKSEDTAVYYCARSFGSSYWFYFDVWGQGTLVTVSSGGGGSGGGGSGGGGSDIQMT
QSPSSLSASVGDRVTTITCKASQDVSTAVAWYQQKPGKAPKLLIYSASYRYTGVPSTR
FSGSGSGTDFTLTISLQPEDFAVYYCQQHYITPLTFGQGTKLEIKRGAPSGDYKD
DDDKGAAAHHHHHH
(配列番号5) シグナル配列 (1-23)、HT1-11-scFv-HL (28-271)、FLAG-
Hisタグ (272-294)

[図21]

HT1-11-scFv-LH全長のアミノ酸配列

MKYLLPTAAAGLLLLLAAQPAMAADVNSDIQMTQSPSSLSASVGDRVTTITCKASQDV
STAVAWYQQKPGKAPKLLIYSASYRYTGVPSTRFSGSGSGTDFTLTISLQPEDFAV
YYCQQHYITPLTFGQGTKLEIKRGGGGSGGGGSGGGGSQVQLVQSGAEVKKPGASV
KVSCKASGYTFITAGMQWVRQAPGQGLEWMGWINTHSGVPKYAEDFKGRVTISADT
STSTAYLQLSSLKSEDTAVYYCARSFGSSYWFYFDVWGQGTLVTVSSGAPSGDYKD
DDDKGAAAHHHHHH
(配列番号6) シグナル配列 (1-23)、HT1-11-scFv-LH (28-271)、FLAG-
Hisタグ (272-294)

[図22]

MHT1007 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSGYLALKHPWPGLAENSGSGGGGSVLVPMAMMASGGSQ
VQLVQSGAEVKKPGASVKVSCASGYTFTTAGMQWVRQAPGQGLEWMGWINTHSGV
PKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSGFGSSYWFVDVWGQ
GTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTS
GVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCD
KTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNW
YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE
KTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPEN
NYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSP
GK

(配列番号7) シグナル配列 (1-19)、ミトープペプチド (20-35)、MMP切断リン
カー (36-55)、抗体重鎖配列 (56-506)

[図23]

MHT1008 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSGYLALKHPWPGLAENSGSGGGGSVGGGGSGGGSGGSQ
VQLVQSGAEVKKPGASVKVSCASGYTFTTAGMQWVRQAPGQGLEWMGWINTHSGV
PKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSGFGSSYWFVDVWGQ
GTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTS
GVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCD
KTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNW
YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE
KTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPEN
NYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSP
GK

(配列番号8) シグナル配列 (1-19)、ミトープペプチド (20-35)、非切断リン
カー (36-55)、抗体重鎖配列 (56-506)

[図24]

MHT1009 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSGYLALKHPWPGLAENSGSGGSGGSGRSANAILEGGSQ
VQLVQSGAEVKKPGASVKVSCASGYTFTTAGMQWVRQAPGQGLEWMGWINTHSGV
PKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSGFGSSYWFVDVWGQ
GTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTS
GVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCD
KTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNW
YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE
KTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPEN
NYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSP
GK

(配列番号9) シグナル配列 (1-19)、ミトープペプチド (20-35)、uPA切断リン
カー (36-55)、抗体重鎖配列 (56-506)

[図25]

MHT1803 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSGYLALKHPWPGLAEHHHSGGGGSGGGGSGGGGSHHHQ
 VQLVQSGAEVKKPGASVKVSCKASGYTFTTAGMQWVRQAPGQGLEWMGWINTHSGV
 PKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSFGSSYWFVDVWGQ
 GTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTS
 GVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKRVKPKSCD
 KTHTCPPCPAPELLGGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW
 YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE
 KTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPEN
 NYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVMSHEALHNHYTQKSLSLSP
 GK

(配列番号10) シグナル配列 (1-19)、ミトトープペプチド (20-35)、pH応答性リ
 ンカー (36-55)、抗体重鎖配列 (56-506)

[図26]

MHT1804 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSGYLALKHPWPGLAENSGSGHHHSGGGGSHHHGSGGSQ
 VQLVQSGAEVKKPGASVKVSCKASGYTFTTAGMQWVRQAPGQGLEWMGWINTHSGV
 PKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSFGSSYWFVDVWGQ
 GTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTS
 GVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKRVKPKSCD
 KTHTCPPCPAPELLGGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW
 YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE
 KTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPEN
 NYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVMSHEALHNHYTQKSLSLSP
 GK

(配列番号11) シグナル配列 (1-19)、ミトトープペプチド (20-35)、pH応答性リ
 ンカー (36-55)、抗体重鎖配列 (56-506)

[図27]

MHT1805 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSGYLALKHPWPGLAENSGSGGGGSHHHHSGGGGSGGSQ
 VQLVQSGAEVKKPGASVKVSCKASGYTFTTAGMQWVRQAPGQGLEWMGWINTHSGV
 PKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSFGSSYWFVDVWGQ
 GTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTS
 GVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKRVKPKSCD
 KTHTCPPCPAPELLGGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW
 YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE
 KTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPEN
 NYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVMSHEALHNHYTQKSLSLSP
 GK

(配列番号12) シグナル配列 (1-19)、ミトトープペプチド (20-35)、pH応答性リ
 ンカー (36-55)、抗体重鎖配列 (56-506)

[図28]

MHT1806 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSGYLALKHPWPGLAEHHHSGGGGSHHHHSGGGGSHHHQ
VQLVQSGAEVKKPGASVKVSCASGYTFTTAGMQWVRQAPGQGLEWMGWINTHSGV
PKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSFGSSYWFVDVWGQ
GTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTS
GVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCD
KTHHTCPPCPAPELLGGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW
YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE
KTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPEN
NYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVCSVMHEALHNHYTQKSLSLSP
GK

(配列番号13) シグナル配列 (1-19)、ミトトープペプチド (20-35)、pH応答性リ
ンカー (36-55)、抗体重鎖配列 (56-506)

[図29]

MHT1808 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSGYLALKHPWPGLAENSGGGGSHHHGGHHGGHHGG
SQVQLVQSGAEVKKPGASVKVSCASGYTFTTAGMQWVRQAPGQGLEWMGWINTHS
GVPKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSFGSSYWFVDVW
GQGTLLTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGAL
TSGVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQTYICNVNHKPSNTKVDKRVEPKS
CDKTHHTCPPCPAPELLGGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKF
NWKYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAP
IEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQP
ENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVCSVMHEALHNHYTQKSLSL
SPGK

(配列番号14) シグナル配列 (1-19)、ミトトープペプチド (20-35)、pH応答性リ
ンカー (36-57)、抗体重鎖配列 (58-508)

[図30]

MHT1809 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSGYLALKHPWPGLAENSGGGGSHHHGGHHGGHHGG
SQVQLVQSGAEVKKPGASVKVSCASGYTFTTAGMQWVRQAPGQGLEWMGWINTHS
GVPKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSFGSSYWFVDVW
GQGTLLTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGAL
TSGVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQTYICNVNHKPSNTKVDKRVEPKS
CDKTHHTCPPCPAPELLGGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKF
NWKYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAP
IEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQP
ENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVCSVMHEALHNHYTQKSLSL
SPGK

(配列番号15) シグナル配列 (1-19)、ミトトープペプチド (20-35)、pH応答性リ
ンカー (36-57)、抗体重鎖配列 (58-508)

[図31]

MHT1810 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSGYLALKHPWPGLAENSGGGGGHGHGHGHGHGHGHGG
SQVQLVQSGAEVKKPGASVKVSCKASGYTFTTAGMQWVRQAPGQGLEWMGWINTHS
GVPKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSFGSSYWFYFDVW
GQGTLLTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGAL
TSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKS
CDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKF
NWKVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAP
IEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQP
ENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVMSHEALHNHYTQKSLSL
SPGK

(配列番号16) シグナル配列 (1-19)、ミトープペプチド (20-35)、pH応答性リ
ンカー (36-57)、抗体重鎖配列 (58-508)

[図32]

MHT1811 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSGYLALKHPWPGLAENSGGGGSGGGSGHHHGGHHHGGH
HHGSPGLGLWAGGSQVQLVQSGAEVKKPGASVKVSCKASGYTFTTAGMQWVRQAPGQ
GLEWMGWINTHSGVPKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARS
GFGSSYWFYFDVWGQGTLLTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFP
EPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPS
NTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVV
VDVSHEDPEVKFNWKVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEY
KCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVMSHEA
LHNHYTQKSLSLSPGK

(配列番号17) シグナル配列 (1-19)、ミトープペプチド (20-35)、pH応答性
+MMP切断リンカー (36-69)、抗体重鎖配列 (70-520)

[図33]

MHT1817 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSGYLALKHPWPGLAENSGGGGSGHHHGGHDHGGHHHGG
SQVQLVQSGAEVKKPGASVKVSCKASGYTFTTAGMQWVRQAPGQGLEWMGWINTHS
GVPKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSFGSSYWFYFDVW
GQGTLLTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGAL
TSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKS
CDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKF
NWKVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAP
IEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQP
ENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVMSHEALHNHYTQKSLSL
SPGK

(配列番号18) シグナル配列 (1-19)、ミトープペプチド (20-35)、pH応答性リ
ンカー (36-57)、抗体重鎖配列 (58-508)

[図34]

MHT1818 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSGYLALKHPWPGLAENSGGGGSGHDHGGHHHGGHDHGG
 SQVQLVQSGAEVKKPGASVKVSCKASGYTFTTAGMQWVRQAPGQGLEWMGWINTHS
 GVPKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSFGSSSYWYFDVW
 GQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGAL
 TSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKS
 CDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKF
 NWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAP
 IEKTIKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQP
 ENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSL
 SPGK

(配列番号19) シグナル配列 (1-19)、ミモトープペプチド (20-35)、pH応答性リ
 ンカー (36-57)、抗体重鎖配列 (58-508)

[図35]

MHT1819 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSGYLALKHPWPGLAENSGGGGSGHDHGGHHHGGHDHGG
 SQVQLVQSGAEVKKPGASVKVSCKASGYTFTTAGMQWVRQAPGQGLEWMGWINTHS
 GVPKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSFGSSSYWYFDVW
 GQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGAL
 TSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKS
 CDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKF
 NWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAP
 IEKTIKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQP
 ENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSL
 SPGK

(配列番号20) シグナル配列 (1-19)、ミモトープペプチド (20-35)、pH応答性リ
 ンカー (36-57)、抗体重鎖配列 (58-508)

[図36]

hM23H1L1 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSQVQLVQSGAEVKKPGASVKVSCKASGYAFSNYLIEWV
 RQAPGQGLEWMGVINPGSGVTNYNEKFKGRVTITADTSTSTAYMELSSLRSEDTAV
 YYCARAEAWFAYWGQGTILVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYF
 PEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKP
 SNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCV
 VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKE
 YKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHE
 ALHNHYTQKSLSLSPGK

(配列番号21) シグナル配列 (1-19)、抗体重鎖配列 (20-465)

[図37]

hM23H1L1 L鎖全長のアミノ酸配列

MVLQTQVFISLLLWISGAYGDIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQK
 NYLAWYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSGTDFTLTISSLQAEDVAVY
 YCQRYYGYPWTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPR
 EAKVQWKVDNALQSGNSQESVTEQDSKSTYSLSSLTLSKADYEKHKVYACEVTH
 QGLSSPVTKSFNRGEC

(配列番号22) シグナル配列 (1-20)、抗体軽鎖配列 (21-240)

[図38]

Cetuximab H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSQVQLKQSGPGLVQPSQSLITCTVSGFSLTNYGVHWV
 RQSPGKGLEWLGVIWSGGNTDYNTPFTSRLSINKDNSKSQVFFKMNSLQSNDAIY
 YCARALTYDYDEFAYWGQGLVTVSAASTKGPSVFPLAPSSKSTSGGTAALGCLVK
 DYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQTYICNVN
 HKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEV
 TCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN
 GKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKG
 FYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSV
 MHEALHNHYTQKSLSLSPGK

(配列番号23) シグナル配列 (1-19)、抗体重鎖配列 (20-468)

[図39]

Cetuximab L鎖全長のアミノ酸配列

MVLQTQVFISLLLWISGAYGDILLTQSPVILSVSPGERVSFSCRASQSIGTNIHWY
 QQRTNGSPRLLIKYASESISGIPSRFSGSGSGTDFTLSINSVESEDIADYYCQQNN
 NWPTTFGAGTKLELKRVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQW
 KVDNALQSGNSQESVTEQDSKSTYSLSSLTLSKADYEKHKVYACEVTHQGLSSP
 VTKSFNRGEC

(配列番号24) シグナル配列 (1-20)、抗体軽鎖配列 (21-234)

[図40]

C3022 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAAPRWVLSQVQLVQSGAEVKKPGASVKVSCKASGYTFTGYMHVW
 RQAPGQGLEWMGRINPNSGGTNYAQKFQGRVTMTDRDTSISTAYMELSGLRSDDTAV
 YYCASGSVRHPWGQGLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFP
 EPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQTYICNVNHKPS
 NTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCV
 VDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEY
 KCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEA
 LHNHYTQKSLSLSPGK

(配列番号25) シグナル配列 (1-19)、抗体重鎖配列 (20-464)

[図41]

C3022 L鎖全長のアミノ酸配列

MVLQTQVFISLLLWISGAYGQPVLTQPPSASGTPGQRTVITSCSGSRSNIGGNIVSW
YQQFPGTAPRLLTYADNQRPSPGVDRFSGSGTSASLAISGLQSEDEADYYCAAW
DDSLNGVVFGGGTKLTVLGQPKAAPSVTLFPPSSEELQANKATLVCLISDFYPGAV
TVAWKADSSPVKAGVETTTPSKQSNKYAASSYLSLTPEQWKSHRSYSCQVTHEGS
TVEKTVAPTECS

(配列番号26) シグナル配列 (1-20)、抗体軽鎖配列 (21-236)

[図42]

MhM8001 L鎖全長のアミノ酸配列

MVLQTQVFISLLLWISGAYGGENMWNDLDLVPLGILGGGGSGHHHGHHHGHHGGHHHG
GSDIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNYLAWYQQKPGQPPKLLI
YWASTRESGVDRFSGSGSGTDFTLTISSLQAEDVAVYYCQRYYGYPWTFGQGTKV
EIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQ
ESVTEQDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

(配列番号27) シグナル配列 (1-20)、ミモトープペプチド (21-36)、pH応答性リ
ンカー (37-58)、抗体軽鎖配列 (59-278)

[図43]

MCE-2101 L鎖全長のアミノ酸配列

MVLQTQVFISLLLWISGAYGMGLMHMEKSRSWYLSRQGGGGSGHHHGHHHGHHGGHHH
GGSDILLTQSPVILSVSPGERVSFSCRASQSIGTNIHWYQQRINGSPRLLIKYASE
SISGIPSRFSGSGSGTDFTLSINSVESEDIADYYCQNNNNWPTTFGAGTKLELKRT
VAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTE
QDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

(配列番号28) シグナル配列 (1-20)、ミモトープペプチド (21-37)、pH応答性リ
ンカー (38-59)、抗体軽鎖配列 (60-273)

[図44]

MC3-9001 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAPRWVLSGETMSVFTRDYFTETPGGGSGHHHGHHHGHHGGHHHG
SQVQLVQSGAEVKKPGASVKVSCASGYTFTGYMHWVRQAPGQGLEWMGRINPNS
GGTNYAQKFQGRVTMTRDTSISTAYMELSGLRSDDTAVYYCASGSVRHPWGQGTLV
TVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHT
FPAVLQSSGLYSLSSVFTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHT
CPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDG
VEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIS
KAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKT
TPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSPGK

(配列番号29) シグナル配列 (1-19)、ミモトープペプチド (20-35)、pH応答性リ
ンカー (36-57)、抗体重鎖配列 (58-502)

[図45]

MHT1221 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAPRWVLSGYLALKHPWPGLASGSGSGGGGSGGGGSGGGGSGGSQ
 VQLVQSGAEVKKPGASVKVSCASGYTFTTAGMQWVRQAPGQGLEWMGWINTHSGV
 PKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSGFGSSYWFYFDVWGQ
 GTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTS
 GVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCD
 KTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNW
 YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE
 KTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPEN
 NYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSP
 GK

(配列番号30) シグナル配列 (1-19)、ミトトープペプチド (20-35)、非切断リン
 カー (36-55)、抗体重鎖配列 (56-506)

[図46]

hM23-M1 H鎖全長のアミノ酸配列

MKHLWFFLLLVAAPRWVLSQVQLVQSGAEVKKPGASVKVSCASGAAFSNYLIEWV
 RQAPGQGLEWMGVINPGSGVTNYNEKFKGRVTITADTSTSTAYMELSSLRSEDTAV
 YYCARAEAWFAYWGQGTLLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYF
 PEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQTYICNVNHKPS
 NTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCV
 VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKE
 YKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYP
 SDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQVMHE
 ALHNHYTQKSLSLSPGK

(配列番号31) シグナル配列 (1-19)、抗体重鎖配列 (20-465)

[図47]

hM23-M1 L鎖全長のアミノ酸配列

MVLQTQVFISLLLWISGAYGDIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQK
 NYLAWYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSGTDFTLTISSLQAEDVAVY
 YCQRYYGYPWTFGQGTKVEIKRAVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPR
 EAKVQWKVDNALQSGNSQESVTEQDSKSTYSLSSTLTLSKADYEKHKVYACEVTH
 QGLSSPVTKSFNRGEC

(配列番号32) シグナル配列 (1-20)、抗体軽鎖配列 (21-240)

[図48]

MhM1013 L鎖全長のアミノ酸配列

MVLQTQVFISLLLWISGAYGGNFYHQYPWPLEILGSGSGGGGSLVPMAMMASGGS
DIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNYLAWYQQKPGQPPKLLIYW
ASTRESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQRYYGYPWTFGQGTKVEI
KRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQES
VTEQDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
(配列番号33) シグナル配列 (1-20)、ミトープペプチド (21-36)、MMP切断リン
カー (37-56)、抗体軽鎖配列 (57-276)

[図49]

MhM1018-M1 L鎖全長のアミノ酸配列

MVLQTQVFISLLLWISGAYGGNFYHQYPWPLEILGSGSGGGGSGGGGSGGGGSGGS
DIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNYLAWYQQKPGQPPKLLIYW
ASTRESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQRYYGYPWTFGQGTKVEI
KRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQES
VTEQDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
(配列番号34) シグナル配列 (1-20)、ミトープペプチド (21-36)、非切断リン
カー (37-56)、抗体軽鎖配列 (57-276)

[図50]

MhM1024-M1 L鎖全長のアミノ酸配列

MVLQTQVFISLLLWISGAYGGNFYHQYPWPLEILGSGGGGSGHHHGHHHGHHHG
GSDIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNYLAWYQQKPGQPPKLLI
YWASTRESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQRYYGYPWTFGQGTKV
EIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQ
ESVTEQDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
(配列番号35) シグナル配列 (1-20)、ミトープペプチド (21-36)、pH応答性リ
ンカー (37-58)、抗体軽鎖配列 (59-278)

[図51]

ヒトuPAが認識し、その基質となるアミノ酸配列

SGRSANAILE (配列番号36)

SGRSANA (配列番号37)

SGRSA (配列番号38)

ヒトMMP1が認識し、その基質となるアミノ酸配列

VLVPMAMMAS (配列番号39)

PLGLWA (配列番号40)

ヒトMMP9が認識し、その基質となるアミノ酸配列

PLGLAG (配列番号41)

[図52]

第2ペプチドのアミノ酸配列

GGGGSHHGGHHGGHHGGHHGGS (配列番号42)

GGGGSHHGGHRHGGHHKGGHHGGS (配列番号43)

GGGGSHGHGHHGHGHHGHGGS (配列番号44)

[図53]

ヒトGPRC5Dアミノ末端ペプチドのアミノ酸配列

MYKDCIESTGDYFLLCDAEGPWGIILE (配列番号45)

[図54]

第2ペプチドのアミノ酸配列

GSGGGGSLVPMAMMASGGS (配列番号46)

GSGGGGSGGGSGGGSGGS (配列番号47)

GSGGSGGSGRSANAILEGGS (配列番号48)

HHHSGGGSGGGSGGGSHHH (配列番号49)

GSGHHHSGGGSHHHGSGGS (配列番号50)

GSGGGGSHHHHSGGGSGGS (配列番号51)

HHHSGGGGSHHHHSGGGSHHH (配列番号52)

GGGSGHHHGHHHGHHGGS (配列番号53)

GGGGHGHGHHGHHGHHGGS (配列番号54)

GGGSGGGSGHHHGHHHGHHGSPGLWAGGS (配列番号55)

GGGSGHHHGHDHGHHHGGS (配列番号56)

GGGSGHDHGHHHGHDHGGS (配列番号57)

GGGSGHDHGHDHGHDHGGS (配列番号58)

GGGSGHHHGHHHGHHHGGS (配列番号59)

GGGSGHHHGHHHGHHHGGS (配列番号60)

GGGSGHHHGHHHGHHHGGS (配列番号61)

GSGGGGSGGGSGGGSGGS (配列番号62)

GSGSGGGSLVPMAMMASGGS (配列番号63)

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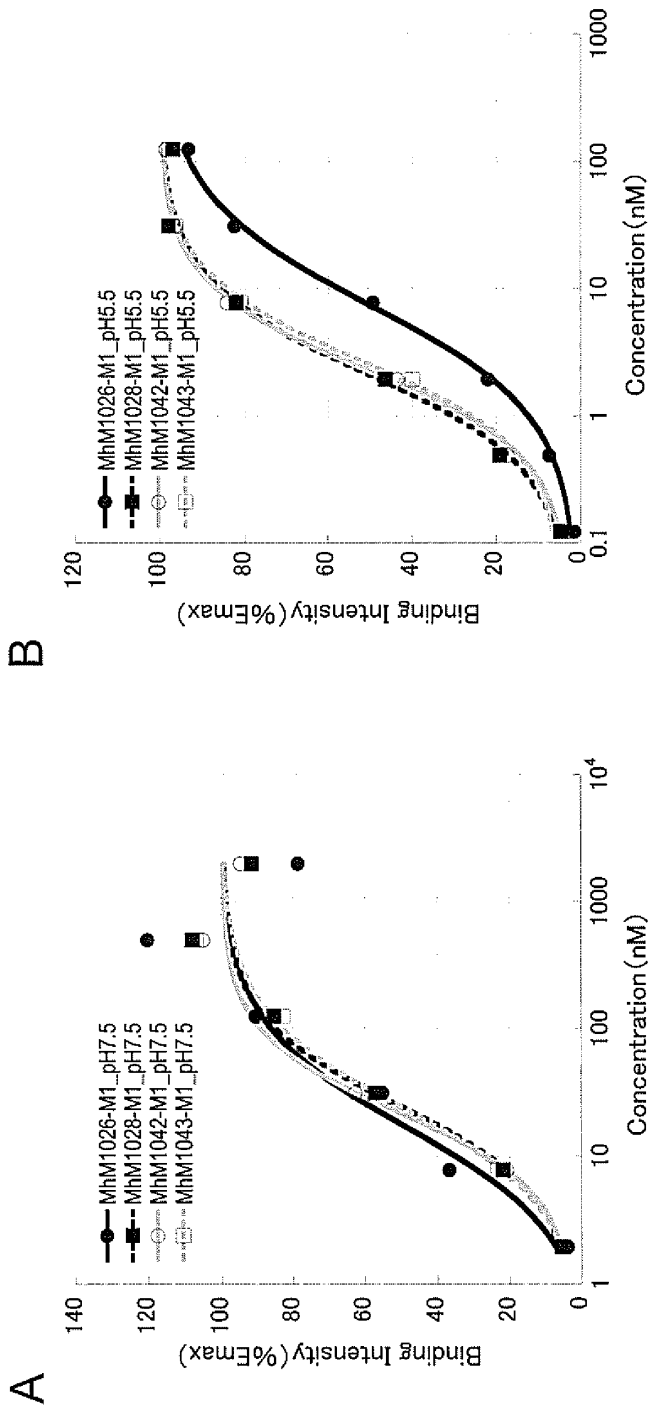
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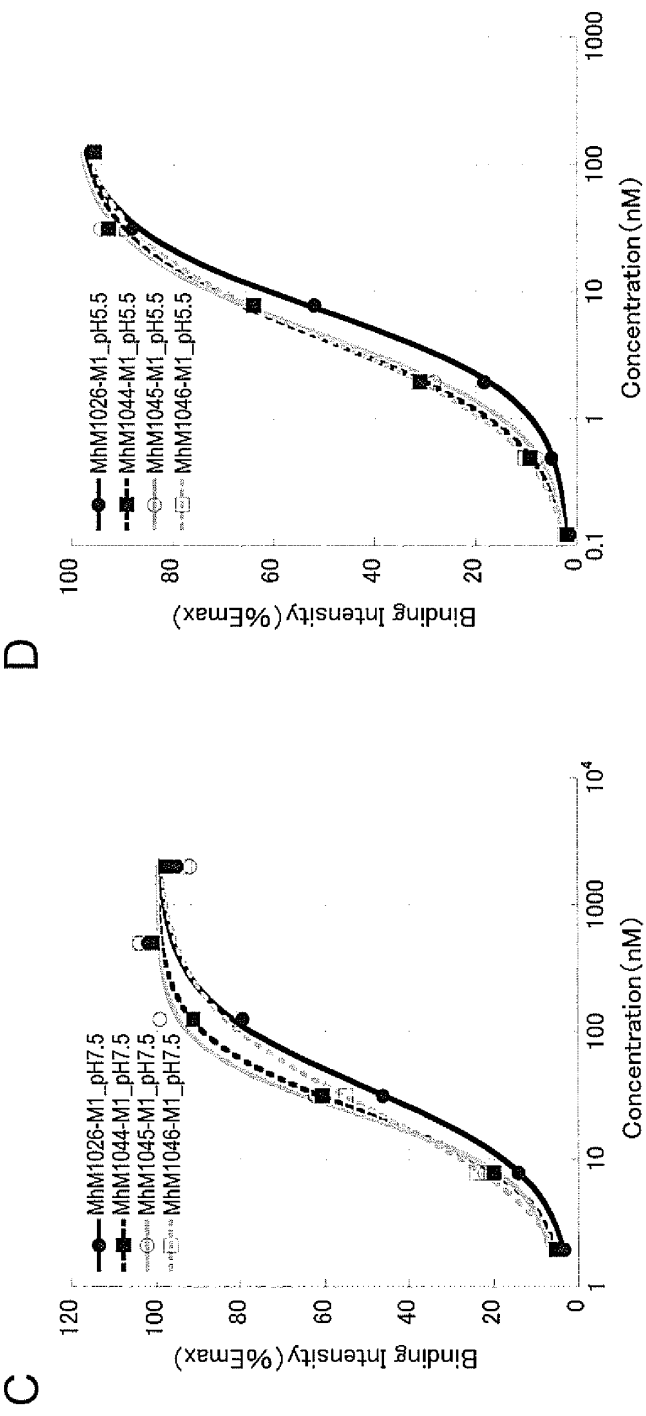
[図55]

ヒトCAPN1が認識し、その基質となるアミノ酸配列
PLFAAP (配列番号67)

[図56-1]



[図56-2]



[図57]

MhM1026-M1の軽鎖アミノ酸配列

MVLQTQVFISLLWISGAYGGNFYHQYPWPLEILGSGGGGSGGGHHHGGHHHGGHH
HGGSDIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNYLAWYQQKPGQPPKL
LIYWASTRESGVPDRFSGSGSGTDFTLTISLQAEDVAVYYCQRYYGYPWTFGQGT
KVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGN
SQESVTEQDSKDYSLSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
(配列番号68) シグナル配列 (1-20)、ミトープペプチド (21-36)、pH応答性リ
ンカー (37-60)、抗体軽鎖配列 (61-280)

[図58]

MhM1028-M1の軽鎖アミノ酸配列

MVLQTQVFISLLWISGAYGGNFYHQYPWPLEILGSGGGGSGGGHHHGRHHHGGHH
HGGSDIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNYLAWYQQKPGQPPKL
LIYWASTRESGVPDRFSGSGSGTDFTLTISLQAEDVAVYYCQRYYGYPWTFGQGT
KVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGN
SQESVTEQDSKDYSLSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
(配列番号69) シグナル配列 (1-20)、ミトープペプチド (21-36)、pH応答性リ
ンカー (37-60)、抗体軽鎖配列 (61-280)

[図59]

MhM1042-M1の軽鎖アミノ酸配列

MVLQTQVFISLLWISGAYGGNFYHQYPWPLEILGSGGGGSGGRHHHGGHHHGGHH
HGGSDIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNYLAWYQQKPGQPPKL
LIYWASTRESGVPDRFSGSGSGTDFTLTISLQAEDVAVYYCQRYYGYPWTFGQGT
KVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGN
SQESVTEQDSKDYSLSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
(配列番号70) シグナル配列 (1-20)、ミトープペプチド (21-36)、pH応答性リ
ンカー (37-60)、抗体軽鎖配列 (61-280)

[図60]

MhM1043-M1の軽鎖アミノ酸配列

MVLQTQVFISLLWISGAYGGNFYHQYPWPLEILGSGGGGSGGGHHHGGHHHGRHH
HGGSDIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNYLAWYQQKPGQPPKL
LIYWASTRESGVPDRFSGSGSGTDFTLTISLQAEDVAVYYCQRYYGYPWTFGQGT
KVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGN
SQESVTEQDSKDYSLSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
(配列番号71) シグナル配列 (1-20)、ミトープペプチド (21-36)、pH応答性リ
ンカー (37-60)、抗体軽鎖配列 (61-280)

[図61]

MhM1044-M1の軽鎖アミノ酸配列

MVLQTQVFISLLLWISGAYGGNFYHQYPWPLEILGSGGGGSGGGHHHGKHHHGGHH
HGGSDIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNYLAWYQQKPGQPPKL
LIYWASTRESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQRYYGYPWTFGQGT
KVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGN
SQESVTEQDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
(配列番号72) シグナル配列 (1-20)、ミモトープペプチド (21-36)、pH応答性リ
ンカー (37-60)、抗体軽鎖配列 (61-280)

[図62]

MhM1045-M1の軽鎖アミノ酸配列

MVLQTQVFISLLLWISGAYGGNFYHQYPWPLEILGSGGGGSGGKHHHGGHHHGGHH
HGGSDIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNYLAWYQQKPGQPPKL
LIYWASTRESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQRYYGYPWTFGQGT
KVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGN
SQESVTEQDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
(配列番号73) シグナル配列 (1-20)、ミモトープペプチド (21-36)、pH応答性リ
ンカー (37-60)、抗体軽鎖配列 (61-280)

[図63]

MhM1046-M1の軽鎖アミノ酸配列

MVLQTQVFISLLLWISGAYGGNFYHQYPWPLEILGSGGGGSGGGHHHGKHHHGGHH
HGGSDIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNYLAWYQQKPGQPPKL
LIYWASTRESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQRYYGYPWTFGQGT
KVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGN
SQESVTEQDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
(配列番号74) シグナル配列 (1-20)、ミモトープペプチド (21-36)、pH応答性リ
ンカー (37-60)、抗体軽鎖配列 (61-280)

[図64]

第2ペプチドのアミノ酸配列

GGGGSGGGHHHGHHHGHHHGGS (配列番号75)

GGGGSGGGHHHGRHHHGHHHGGS (配列番号76)

GGGGSGGRHHHGHHHGHHHGGS (配列番号77)

GGGGSGGGHHHGHHHGRHHHGGS (配列番号78)

GGGGSGGGHHHGKHHHGHHHGGS (配列番号79)

GGGGSGGKHHHGHHHGHHHGGS (配列番号80)

GGGGSGGGHHHGHHHGKHHHGGS (配列番号81)