

Figure 1

Amino acid sequence (SEQ ID NO: 2) of human TLR7 (variant 1)

mvfpmwtlkrqililfniiliskllgarwfpktlpcdvtldvpknhvivdctdkhlt
eipggiptntntltltinhispasfhrldhlveidfrcncvpiplgsknmcik
rlqikprsfsgltylkslyldgnqlleipqglppslqlsleannifsirkenltel
anieilylgqncyyrnpcyvsysiekdaflnltklkvlsldknnvtavptvlpstlt
elylynmiakiqeddfnnlnqlqildlsgncprcynapfpcapcknnsplqipvna
fdaltelkvrlrhlshslqhvpprwfkninklqeldlsqnflakeigdakflhflpsl
iqldlsfnfelqvyrasmnlsqafsslkslklirgyvfkelksfnlsplhnlqnl
evldlgtnfikianlsmfkqfkrkvidlsvnkispsgdssevgfcsnartsvesye
pqvleqlhyfrydkyarscrfknkeasfmsvnescykygqtdlksnsiffvkssdf
qhlsflkclnlsgnlisqtlngsefqplaelryldfsnnrldllhstafeelhkle
ldissnshyfqsegithmlnftknkvlqklmmndndissstsrtmeseslrtlefr
gnhldvlwregdnrylqlfknllkleeldisknslsflpsgvfdgmppnlknslak
nglksfswkklqclknletldlshnqlttvperlscsrslnlilknqirsltky
flqdafqlryldlssnkiqmiqktsfpenvlnnlkmlllhhnrflctcdavwfvwww
nhtevtipylatdvtcvpggahkgqsvisllytceldltlnlilfslsisvslflmv
mmtashlyfwdvwyiyhfckakikgyqrlispcocydafivydtkdpaftewvlael
vakledprekhfnlcleerdwlpqqpvlenlsqsiqlskktvfvmtdkyaktenfki
afylshqrlmdekvdviiliflekpfqkskflqlrkrkcgssvlewptnpqahpyfw
qclknalatdnhvaysqvfketv

Figure 2

Amino acid sequence (SEQ ID NO: 4) of human TLR7 (variant 2)

mvfpmwtlkrqililfniiliskllgarwfpktlpcdvtldvpknhvividctdkhlt
eipggiptntntltltinhispasfhrldhlveidfrcncvpiplgsknmcik
rlqikprsfsgltylkslyldgnqlleipqglppslqlsleannifsirkenltel
anieilylgqncyyrnpcyvsysiekdaflnltklklvslkdnnvtavptvlpstlt
elylynmiakiqeddfnnlnqlqildlsgncprcynapfpcapcknnsplqipvna
fdaltelkvlrlhsnslqhvpprwfkninklqeldlsqnflakeigdakflhflpsl
iqldlsfnfelqvyrasmnlsqafsslkslklirgyvfkelksfnlsplhnlqnl
evldlgtnfikianlsmfkqfkrkvidlsvnkispsgdssevgfcsnartsvesye
pqvleqlhyfrydkyarscrfknkeasfmsvnescykygqtdlksnsiffvkssdf
qhlsflkclnlsgnlisqtlngsefqplaelryldfsnnrldllhstafeelhklev
ldissnshyfqsegithmlnftknklvlqklmmndndissstsrtmeseslrtlefr
gnhldvlwregdnrylqlfknllkleeldisknslsflpsgvfdgmpnpnlknslak
nglksfswkklqclknletldlshnqlttvperlsncsrshknllknnqirsptky
flqdafqlryldlssnkiqmiqktsfpenvlnnlkmlllhhnrflctcdavwfvwwv
nhtevtipylatdvtcvpggahkgqsvislldlytceldltnlilfslsisvslflmv
mmtashlyfwdvwyiyhfckakikgyqrlispdccydafigvdtkdpaftewvlael
vakledprekhfnlcleerdwlpqqpvlenlsqsiqlskktvfvmtdkyaktenfki
afylshqrlmdekvdviiliflekpfqkskflqlrkrkcgssvlewptnpqahpyfw
qclknalatdnhvaysqvketv

Figure 3

Amino acid sequence (SEQ ID NO: 83) of mouse TLR7

mvfsmwtrkrqiliflnmllvsrvfgfrwfpkltlpcevkvnipeahvivdctdkhlt
eiepegiptnttnltltinhipsispsdfrnlhleeidlrncncvpvllgskanvctk
rlqirpgsfsglsdlkalyldgnqlleipqdlpsslhllsleannifsitkenltel
vnietlylgqncyyrnpcnvsysiekdaflvmrnkvlskdnvtavpttlppnll
elylynniikkiqendfnnlnelqvldlsgncprcynvpypctpcennsplqihdna
fnsltelkvrlrlnhsnlqhvptwfkmmrnlqeldlsqnylareieeakflhflpnl
veldfsfnyelqvyhasitlphslsslenlkilrvkgyvfkelknssslsvlhklprl
evldlgtnfikiadlnifkhfenklidlsvnkispseesrevgfcnpaqtstvdrhg
pqvlealhyfrydeyarscrfknkeppsflplnadchiygqtdlslrnniffikpsd
fqhlsflkcnlsgntigqtlngselwplrelryldfsnnrldllystafeelqsle
vldlssnshyfqaegithmlnftkklrllldklmmndndistsasrtmesdslrilef
rgnhldvlwragdnryldffknlfnevlldisrnslnslppevfegmppnlknsls
knglksffwdrllqllkhleildlshnqltkvperlancskslttlilkhnqirqltk
yfledalqlryldissnkiqviqktsfpenvlnnlemvlhlnrflcncdavwfvww
vnhtdvtipylatdvtcvpggahkgqsvislldlytcelldltnlilfsvsissvflm
vmttshlffwdmwyiyyfwkakikgyqhlqsmescydafigydtknsavtewvlqe
lvakledprekhfnlcleerdwlpqpvlensqsiqlskktvfvm tqkyaktesfk
mafylshqrrlldekvdviiliflekplqkskflqlrkrlcrssvlewpanpqahpyf
wqclknalttdnhvaysqm fketv

Figure 4

Amino acid sequence (SEQ ID NO: 84) of rat TLR7

mvfpmwtlkrqsfiflnmilvsrvlgfrwypktpcdvsldstnthvivdctdkhlt
eiepgiptnttnltltinhipsispsdfhrllkhleeldlrcncvpillgskanvctk
rlqirpgsfsglsdlkslyldgnqlleipqdlpsslqlsleannifsitkenlsel
vnieslylgqncyrrnpcnvsysiekdaflvmknlkvlslkdnnvtavptilppnll
elylynniikriqehdfnklsqqlqvldlsgncprcynvpypctpcennsplqihdna
fdsltelkvrlrlhsnslqhvpawfknmsnlqeldlsqnylareieeakflnslpnl
vqldlsfnyelqvyhasitlphslssltklknlyikgyvfkelkdssslsvlhnlsnl
evldlgtnfikiadlnifqqfenlkfidlsvnkispseesrevglcpnaqtsvdwhg
pqvlealhyfrydeyarscrfknkepptflplnadchtygktdlsrnniffikpsd
fkhlsflkcnlsgnaigqtlngselqplrelryldfsnnrldllystafeelqnle
ildlssnshyfqaegithmlnftkklrhleklmmdndistsasrtmeseslrvfef
rgnhldvlwrdgdnryldffknllnleeldisrnslnsvppgvfegmppnltttsla
knqlrsfswgrlqlkhlknldlshnqlttvparlancsksltklilnhnqirqltk
yfledalqlryldissnkiqviqktsfpenvlnnlmlhlnrflcncdavwfvww
vnhtdvtipylatdvtcagpgahkgqsvislldlytceldltlnlilfsvsissvflm
ivmttshlffwdmwyiyyfwkakikgyqhlqsmescydafovdytknsavtewvlqe
lvvkledprekhfnlcleerdwlpqpvlensqsiqlsrktvfvmtdqkyaktesfk
mafylshqrlmdekvdviiliflekplqkskflqlrkrkrcsssvlewptnpqahpyf
wqclknalttdnhvaysqmfdetv

Figure 5

Amino acid sequence (SEQ ID NO: 85) of monkey TLR7

mmfpvwtlkrqililfniiliskllgarwfpktlpcdvtdvsknhvivdctdkhlt
eipggiptnttnltltinhispasfhrvlvhlveidfrcncvpirlgsksnmcpr
rlqikprsfsgltylkslyldgnqlleipqglppslqlsleannifsirkenltel
anieilylgqncyynpcyvsysiekdaflnltklkvlskdnvttvptvlpstlt
elylynmiaeiqeddfnnlnqlqildlsgncprcynapfpctpcknnsplqipvna
fdaltelkvrlrlnslqhvpprwfkninnlqeldlsqnflakeigdakflhflpnl
iqldlsfnfelqvyrasmnlsqafsslsklkilrirgyvfkelksfnlsplhnlqnl
evldlgtnfikianlsmfkqfkrkvidlsvnkispsgdssevgfcsnartsvesye
pqvleqlyyfrydkyarscrfknkeasftsvnescykygqtdlksnsiffikssdf
qhlsflkclnlsgnlisqtlngsefqplaelryldfsnnrldllhstafeelrklev
ldissnshyfqsegithmlnftknkvlqklmmndndissstsrtmeseslrtlefr
gnhldvlwrdgdnrylqlfknllkleeldisknslsflpsgvfdgmppnlknslak
nglksfiweklrylknletldlshnqlttvperlsncsrslnlilknqirsltkyl
flqdafqlryldlssnkiqmiqktsfpenvlnnlkmlllhhnrflctcdavwfvwwv
nhtevtipylatdvtcvpggahkgqsvislldlytceldltnlilfslsisvslflmv
mmtashlyfwdvwyiyhfckakikgyqrlispdccydafovdytdkdpavtewvlael
vakledprekhfnlcleerdlpgqpvlenssqsiqlskktvfvmtdkyaktenfki
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qclknalatdnhvaysqvketv

Figure 6

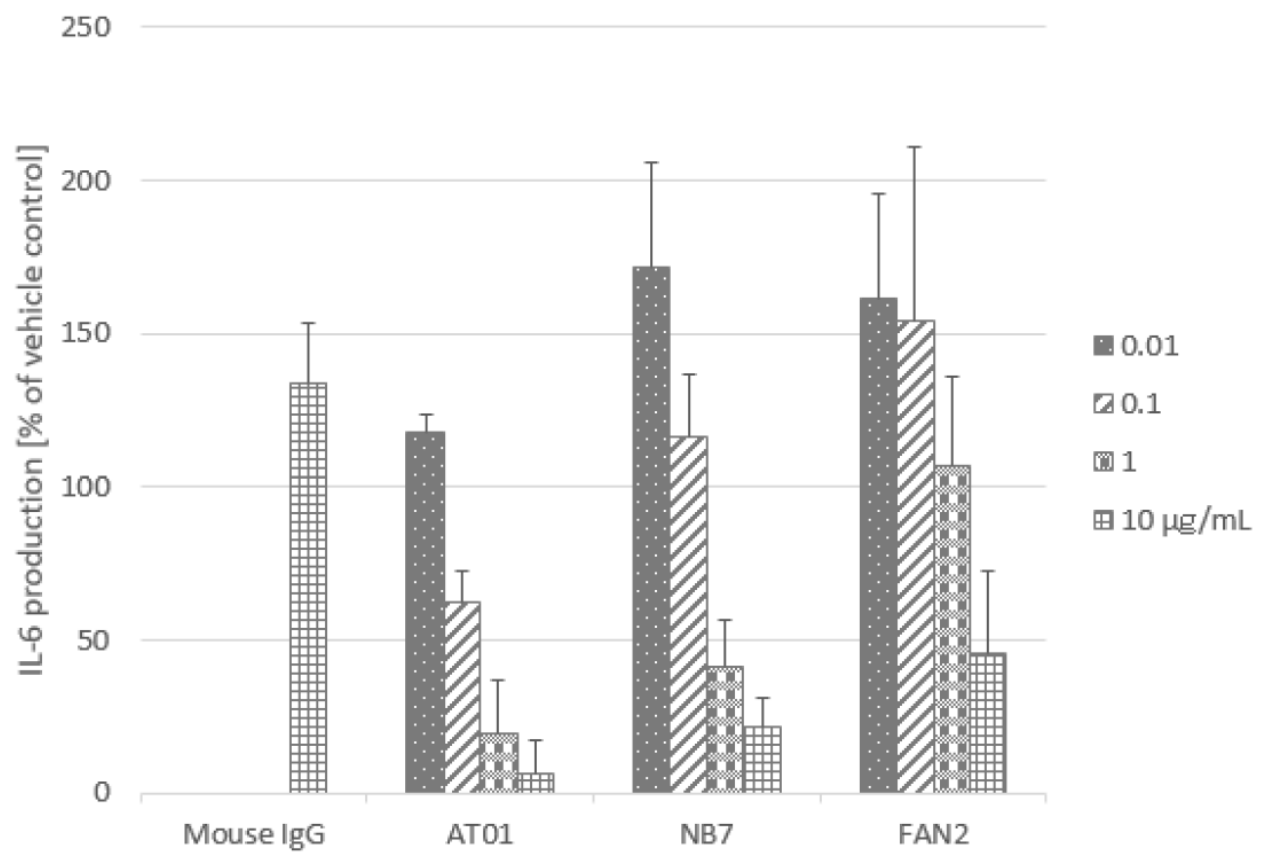


Figure 7

Amino acid sequence (SEQ ID NO: 35) of heavy chain
(including signal sequence thereof) of cAT01 antibody and
amino acid sequence (SEQ ID NO: 36) of light chain
(including signal sequence thereof)

MKHLWFFLLLVAAAPRWVLSQVQLQQPGAELVKPGASVNLSCKASGYTFTNNWLHWVK
QRPGRGLEWIGDIYPSNGRTNYNEQFKTKATLTVDKSSSTAYMQLSSLTSEDSAVYF
CARERGYFDYWGGTALTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEP
VTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTK
VDKRVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVS
HEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVVS
NKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEW
ESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCSVMHENHNYTQ
KSLSLSPGK (SEQ ID NO: 35)

MVLQTQVFISLLLWISGAYGDIQMTQSPSSSLSTSLGGKVTITCKASQDINKYIAWYQ
HKPGKGPRLLIHYTSTLQPGIPSRFSGSGSGRDYSFISISNLEPEDATYYCLQYDYL
LTFGAGTKLELKRAVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDN
ALQSGNSQESVTEQDSKDYSLSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSF
NRGEC (SEQ ID NO: 36)

Figure 8

Amino acid sequence (SEQ ID NO: 37) of heavy chain
(including signal sequence thereof) of cNB7 antibody and
amino acid sequence (SEQ ID NO: 38) of light chain
(including signal sequence thereof)

MKHLWFFLLLVAAAPRWVLSDVQLQESGPGLVKPSQSLSLTCTVTGYSITSDYAWNWI
RQFPGNKLEWMGHISYRGNTNYPNPSLKSRISITRDTSKNQFFLQLNSVTTEDTATYY
CASWNYYGYVDYAMDYWGQGTSTVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVK
DYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNH
KPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTC
VVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKE
YKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEAL
HNHYTQKSLSLSPGK (SEQ ID NO: 37)

MVLQTQVFISLLLWISGAYGDIQMTQTPSSLSASLGDRVTISCRASQDISNYLNWYQ
QKPDGTVKLLIYYTSRLHSGVPSRFSGSGSGTDYSLTINNLEQEDIATYFCQQGDTF
PTFGGGTKLEIKRAVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDN
ALQSGNSQESVTEQDSKDYSLSSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSF
NRGEC (SEQ ID NO: 38)

Figure 9

Amino acid sequence (SEQ ID NO: 39) of heavy chain
(including signal sequence thereof) of cFAN2 antibody and
amino acid sequence (SEQ ID NO: 40) of light chain
(including signal sequence thereof)

MKHLWFFLLLVAAAPRWVLSQVQLKESGPGLVAPSQSL SITCTVSGFSLTGYGVNWVR
QPPGKGLEWLGMIWGDGSTDYNSALKSRLSIRKDNSKSQVFLKMNSLQTDDTARYYC
ARDKGYDGYYYAMDYWGQGTSTVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKD
YFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQTYICNVNHK
PSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCV
VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEY
KCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSD
IAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALH
NHYTQKSLSLSPGK (SEQ ID NO: 39)

MVLQTQVFISLLLWISGAYGDIQMTQSPASLSASVGETVTITCRASENIYSYLAWYQ
QKQGKSPQLLVYDAKTLAEGVPSRFSGSGSGTQFSLKINSLQPEDFGSY YCQH HYGI
PYTFGGGTKLEIKRAVAAPSVFIFPPSDEQLKSGTASVCLLN NFYPREAKVQWKVD
NALQSGNSQESVTEQDSK DSTYLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKS
FNRGEC (SEQ ID NO: 40)

Figure 10

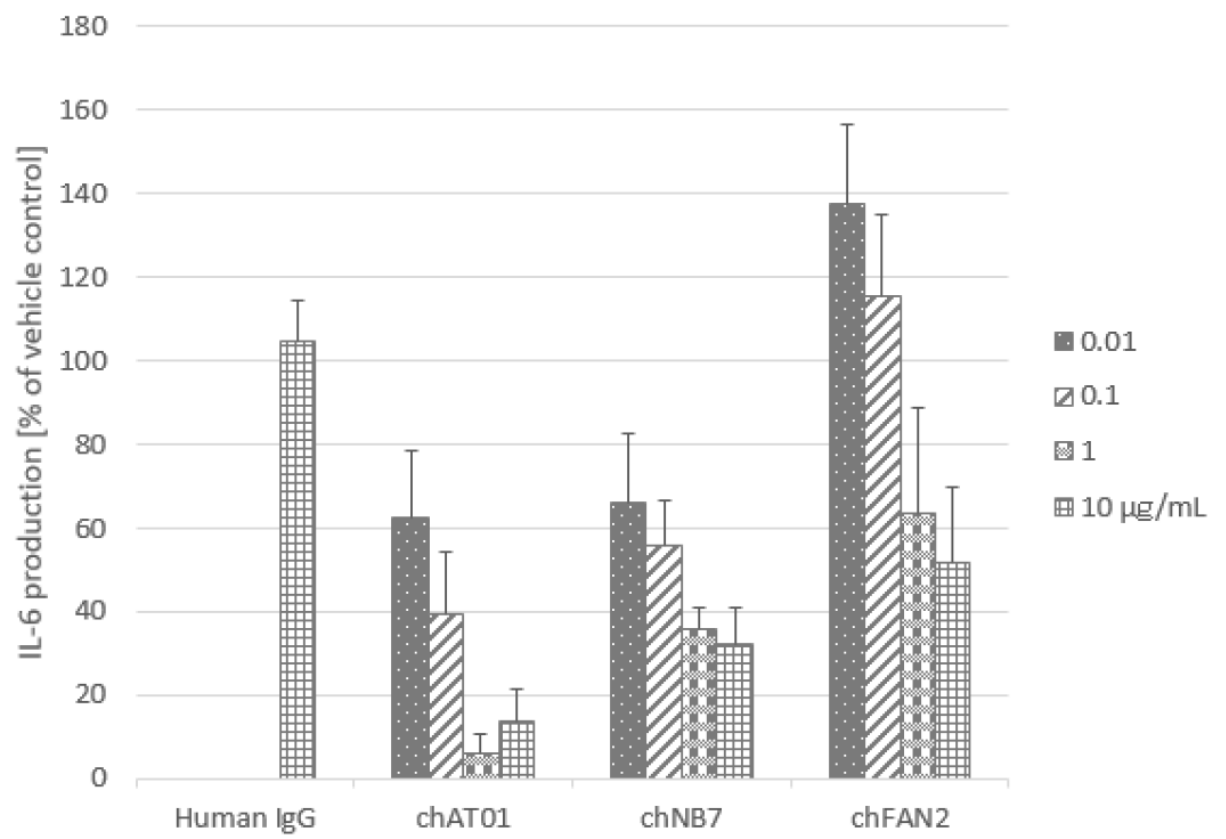


Figure 11

Amino acid sequence (SEQ ID NO: 45) (including signal sequence) of humanized heavy chain huAT01_H1_IgG1LALA

MKHLWFFLLLVAAAPRWVLSQVQLVQSGAEVKKPGASVKVSCKASGYTFTNNWLHWVR
QAPGQGLEWMGDIYPSNGRTNYAQKFQGRVTITADKSTSTAYMELSSLRSED TAVYY
CARERGYFDYWGGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEP
VTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTK
VDKRVEPKSCDKTHTCPPCPAPEAAGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVS
HEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVS
NKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEW
ESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCSV MHEALHNHYTQ
KSLSLSPGK

Figure 12

Amino acid sequence (SEQ ID NO: 46) (including signal sequence) of humanized heavy chain huAT01_H3_IgG1LALA

MKHLWFFLLLVAAAPRWVLSQVQLVQSGAEVKKPGASVKVSCKASGYTFTNNWLHWVR
QAPGQGLEWMGDIYPSNGRTNYAQKFQGRVTLTVDKSTSTAYMELSSLRSEDVAVYF
CARERGYFDYWGGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEP
VTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTK
VDKRVEPKSCDKTHTCPPCPAPEAAGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVS
HEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVS
NKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEW
ESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCSVMHEALHNHYTQ
KSLSLSPGK

Figure 13

Amino acid sequence (SEQ ID NO: 47) (including signal sequence) of humanized heavy chain huAT01_H3_IgG4Pro

MKHLWFFLLLVAAAPRWVLSQVQLVQSGAEVKKPGASVKVSCKASGYTFTNNWLHWVR
QAPGQGLEWMGDIYPSNGRTNYAQKFQGRVTLTVDKSTSTAYMELSSLRSED TAVYF
CARERGYFDYWGGTLVTVSSASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEP
VTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGKTYTCNVDPHKPSNTK
VDKRVESKYGPPCPPCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQED
PEVQFNWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKG
LPSSIEKTISKAKGQPREPQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVEWESN
GQPENNYKTTTPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSVMHEALHNHYTQKSL
SLSLGK

Figure 14

chAT01_H	1	QVQLQQPGAELVKPGASVNLSCKASGYTFTNNWLHWVKQRPGRGLEWIGDIYPSNGRTNY	60
huAT01_H1	1	V.S...VK.....KV.....R.A..Q....M.....	60
huAT01_H3	1	V.S...VK.....KV.....R.A..Q....M.....	60
chAT01_H	61	NEQFKTKATLTVDKSSSTAYMQLSSLTSEDSAVYFCARERGYFDYWGGTALTVSS	116
huAT01_H1	61	AQK.QGRV.I.A...T.....E....R...T...Y.....LV....	116
huAT01_H3	61	AQK.QGRV.....T.....E....R...T.....LV....	116

Figure 15

Amino acid sequence (SEQ ID NO: 48) (including signal sequence) of humanized light chain huAT01_L1

MVLQTQVFISLLLWISGAYGDIQMTQSPSSLSASVGDRVTITCKASQDINKYIAWYQ
 QKPGKAPKLLIHYTSTLQPGVPSRFSGSGSGRDFTLTISSLQPEDFATYYCLQYDYL
 LTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDN
 ALQSGNSQESVTEQDSKDYSLSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSF
 NRGEC

Figure 16

Amino acid sequence (SEQ ID NO: 49) (including signal sequence) of humanized light chain huAT01_L2

MVLQTQVFISLLLWISGAYGDIQMTQSPSSLSASVGDRVTITCKASQDINKYIAWYQ
 QKPGKAPKLLIHYTSTLQPGIPSRFSGSGSGRDTLTISLQPEDFATYYCLQYDYL
 LTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDN
 ALQSGNSQESVTEQDSKDYSLSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSF
 NRGEC

Figure 17

chAT01_L	1	DIQMTQSPSSSLSTSLGGKVTITCKASQDINKYIAWYQHKPGKGPRLLIHYTSTLQPGIPS	60
huAT01_L1	1	A.V.DR.....Q....A.K.....V..	60
huAT01_L2	1	A.V.DR.....Q....A.K.....	60
chAT01_L	61	RFSGSGSGRDYSFISISNLEPEDIATYYCLQYDYLLTFGAGTKLELK	106
huAT01_L1	61	FTLT..S.Q...F.....Q...V.I.	106
huAT01_L2	61	TLT..S.Q...F.....Q...V.I.	106

Figure 18

Amino acid sequence (SEQ ID NO: 52) (including signal sequence) of humanized heavy chain huNB7_H3_IgG1LALA

MKHLWFFLLLVAAPRWVLSDVQLQESGPGLVKPSDTLSLTCTVTGYSITSDYAWNWI
 RQPPGNKLEWIGHISYRGNTNYPNPSLKSRVTISRDTSKNQFSLKLSSVTAADTAVYY
 CASWNYYGYVDYAMDYWGQGTTVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVK
 DYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNH
 KPSNTKVKDKRVEPKSCDKTHTCPPCPAPEAAGGPSVFPLFPPKPKDTLMISRTPEVTC
 VVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKE
 YKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVCSVMHEAL
 HNHYTQKSLSLSPGK

Figure 19

Amino acid sequence (SEQ ID NO: 54) (including signal sequence) of humanized heavy chain huNB7_H3_IgG4Pro

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MKHLWFFLLLVAAAPRWVLSDVQLQESGPGLVKPSDTLSLTCTVTGYSITSDYAWNWI
RQPPGNKLEWIGHISYRGNTNYPNPSLKSRTISRDTSKNQFSLKLSSVTAADTAVYY
CASWNYYGYVDYAMDYWGQGTTVTVSSASTKGPSVFPLAPCSRSTSESTAALGCLVK
DYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTKTYTCNVDH
KPSNTKVDKRVESKYGPPCPPCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVTV
DVSQEDPEVQFNWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKC
KVSNGKLPSSIEKTISKAKGQPREPQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIA
VEWESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSVMEALHNH
YTQKSLSLSLGK

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Figure 20

chNB7_H	1	DVQLQESGPGLVKPSQSLSLTCTVTGYSITSDYAWNWI	RQPPGNKLEWIGHISYRGNTNY	60
huNB7_H3	1	DT.....P.....I.....		60
chNB7_H	61	NPSLKSRTISRDTSKNQFFLQLNSVTTEDTATYYCASWNYYGYVDYAMDYWGQTSVTV		120
huNB7_H3	61	VT.S.....S.K.S...AA...V.....T...		120
chNB7_H	121	SS		122
huNB7_H3	121	..		122

Figure 21

Amino acid sequence (SEQ ID NO: 53) (including signal sequence) of humanized light chain huNB7_L3

MVLQTQVFISLLLWISGAYGDIQMTQSPSSLSASVGDRVTITCRASQDISNYLNWYQ
 QKPGKAVKLLIYYTSRLHSGVPSRFSGSGSGTDYTLTISSLQPEDFATYFCQQGDTF
 PTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDN
 ALQSGNSQESVTEQDSKDYSLSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSF
 NRGEC

Figure 22

chNB7_L	1	DIQMTQTPSSLSASLGDRVTISCRASQDISNYLNWYQQKPDGTVKLLIYYTSRLHSGVPS	60
huNB7_L3	1	S.....V.....T.....GKA.....	60
chNB7_L	61	RFSGSGSGTDYSLTINNLEQEDIATYFCQQGDTFPTFGGGTKLEIK	106
huNB7_L3	61	T...SS.QP..F.....Q...V...	106

Figure 23

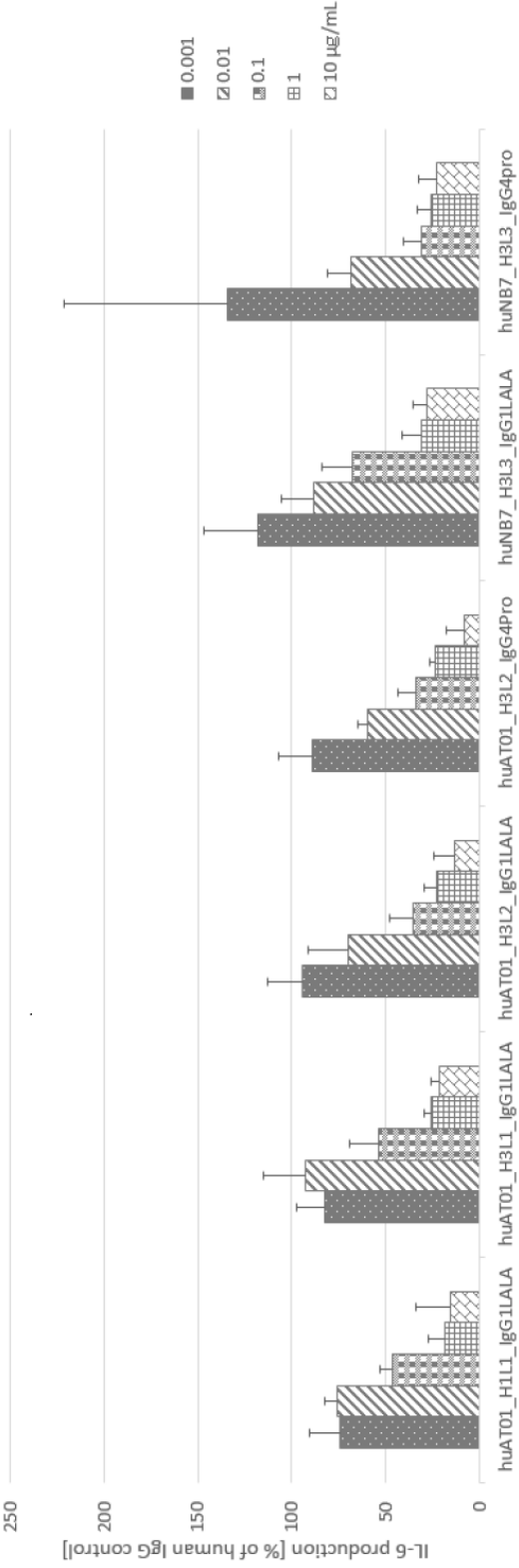


Figure 24

Figure 24-1

Amino acid sequence of CDRs of the AT01 antibody

Amino acid sequence (SEQ ID NO: 17) of CDRH1: GYTFTNNWLH

Amino acid sequence (SEQ ID NO: 18) of CDRH2: DIYPSNGRTN

Amino acid sequence (SEQ ID NO: 19) of CDRH3: ERGYFDY

Amino acid sequence (SEQ ID NO: 20) of CDRL1: KASQDINKYIA

Amino acid sequence (SEQ ID NO: 21) of CDRL2: YTSTLQP

Amino acid sequence (SEQ ID NO: 22) of CDRL3: LQYDYLLT

Figure 24-2

Amino acid sequence of CDRs of the NB7 antibody

Amino acid sequence (SEQ ID NO: 23) of CDRH1: GYSITSDYAWN

Amino acid sequence (SEQ ID NO: 24) of CDRH2: HISYRGNTN

Amino acid sequence (SEQ ID NO: 25) of CDRH3:

WNYYGYVDYAMDY

Amino acid sequence (SEQ ID NO: 26) of CDRL1: RASQDISNYLN

Amino acid sequence (SEQ ID NO: 27) of CDRL2: YTSRLHS

Amino acid sequence (SEQ ID NO: 28) of CDRL3: QQGDTFPT

Figure 24-3

Amino acid sequence of CDRs of the FAN2 antibody

Amino acid sequence (SEQ ID NO: 29) of CDRH1: GFSLTGYGVN

Amino acid sequence (SEQ ID NO: 30) of CDRH2: MIWGDGSTD

Amino acid sequence (SEQ ID NO: 31) of CDRH3:

DKGYDGYYYAMDY

Amino acid sequence (SEQ ID NO: 32) of CDRL1: RASENIYSYLA

Amino acid sequence (SEQ ID NO: 33) of CDRL2: DAKTLAE

Amino acid sequence (SEQ ID NO: 34) of CDRL3: QHHYGIPYT

Figure 25

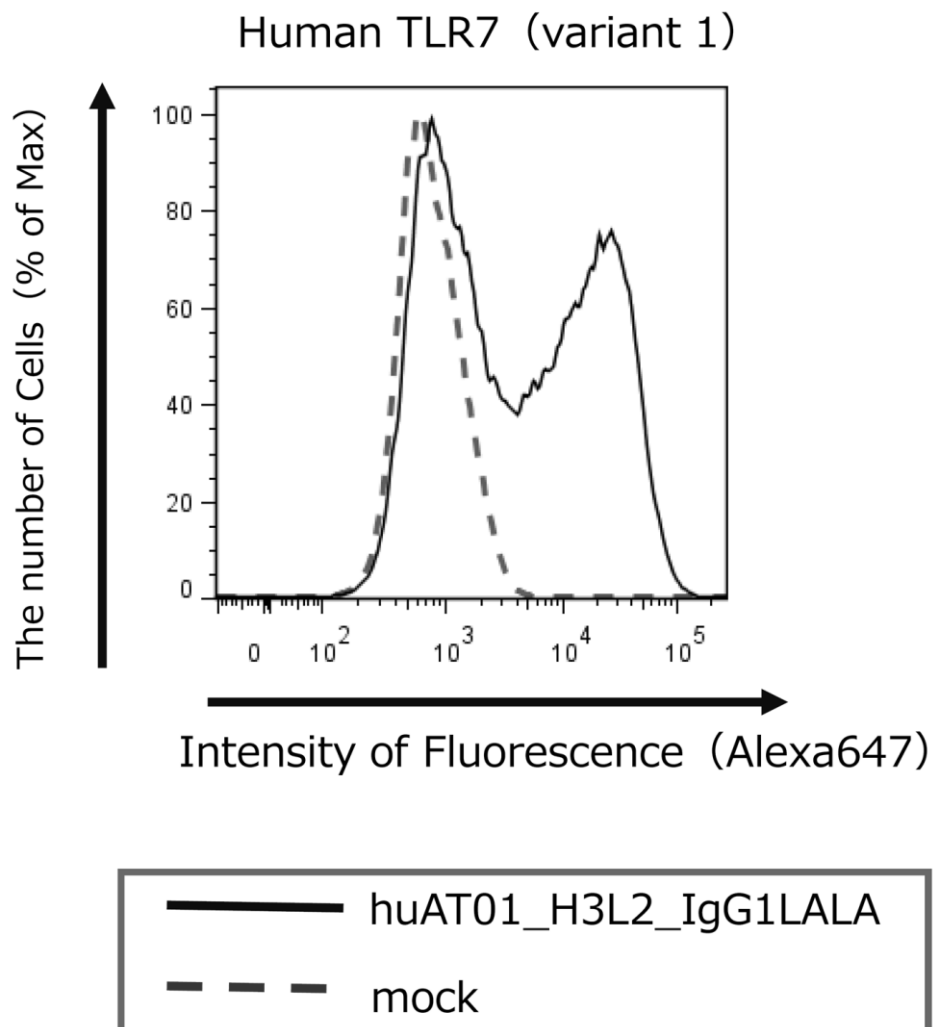


Figure 26

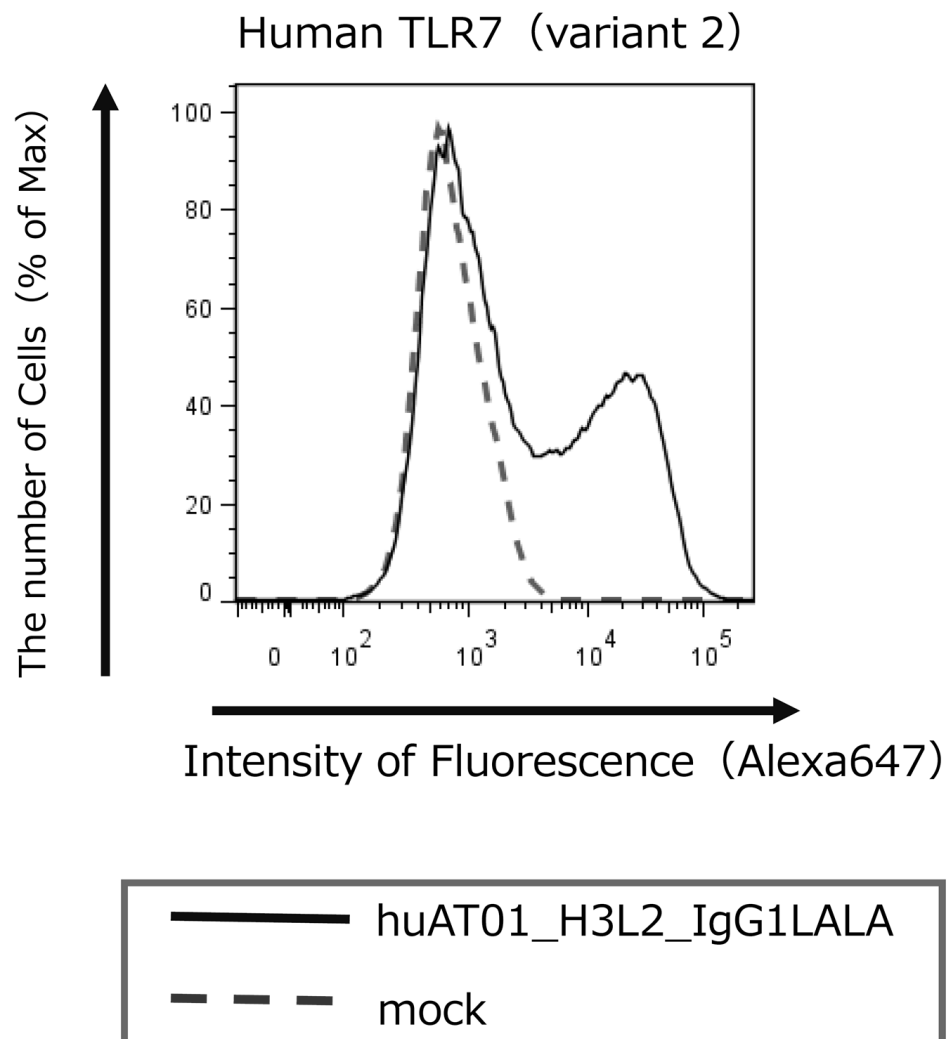


Figure 27

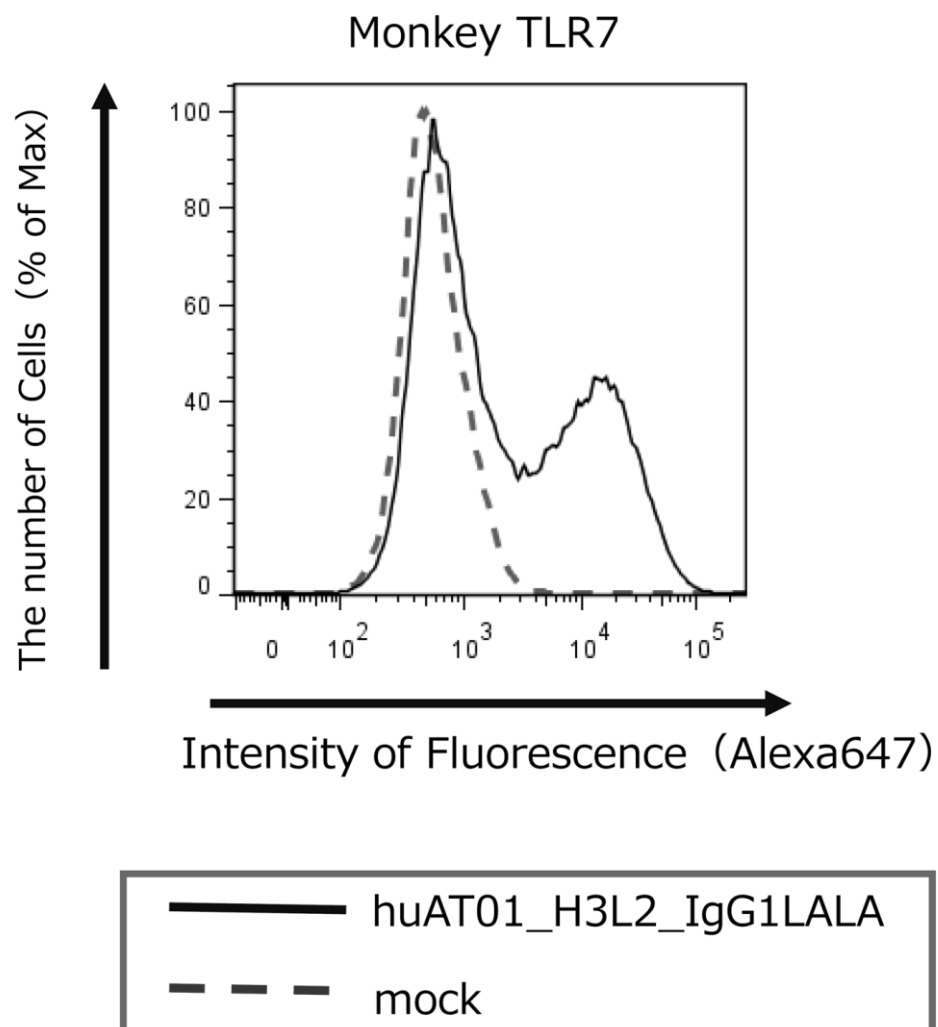


Figure 28

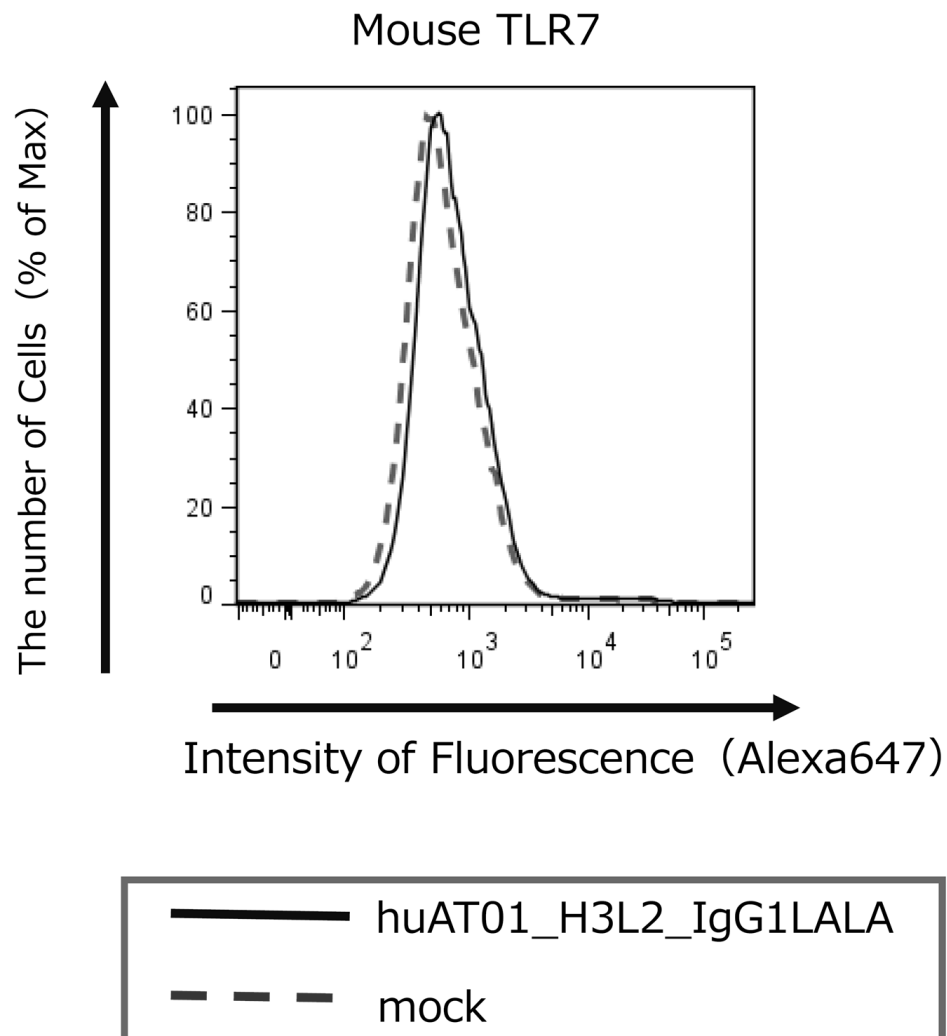


Figure 29

