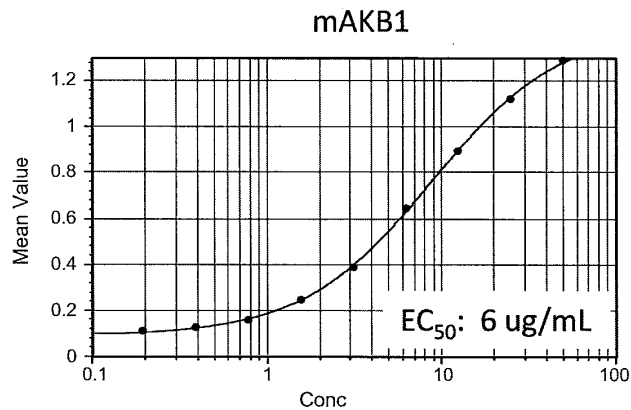


[図1]

Binding to hDNAM-1/BW



[図2]

重鎖可変領域の比較

	1	2	3
	123456789	0123456789	0123456789
mAKB1	DVQLQESGP	GLVKPSQSL	LTCSVTGYSI
hAKB1 VH1	QVQLQESGP	GLVKPSETLS	LTCTVSGYSI
hAKB1 VH2	QVQLQESGP	GLVKPSETLS	LTCTVSGYSI
FJ039783 VH	QVQLQESGP	GLVKPSETLS	LTCTVSGYSI
	4	5	6
	0123456789	0123456789	0123456789
mAKB1	QFPGNKLEWM	GYISYDGSNN	YNPSLKNRIS
hAKB1 VH1	QPPGKGLEWM	GYISYDGSNN	YNPSLKNRVT
hAKB1 VH2	QPPGKGLEWM	GYISYDGSNN	YNPSLKNRVT
FJ039783 VH	QPPGKGLEWI	G-----	-----RVT
		1	1
	8	9	0
	0123456789	0123456789	0123456789
mAKB1	FLKLNSVTTE	DTATYYCARA	YYGNYVGyFD
hAKB1 VH1	SLKLSSVTAA	DTAVYYCARA	YYGNYVGyFD
hAKB1 VH2	SLKLSSVTAA	DTAVYYCARA	YYGNYVGyFD
FJ039783 VH	SLKLSSVTAA	DTAVYYCAR-	-----WGQGT

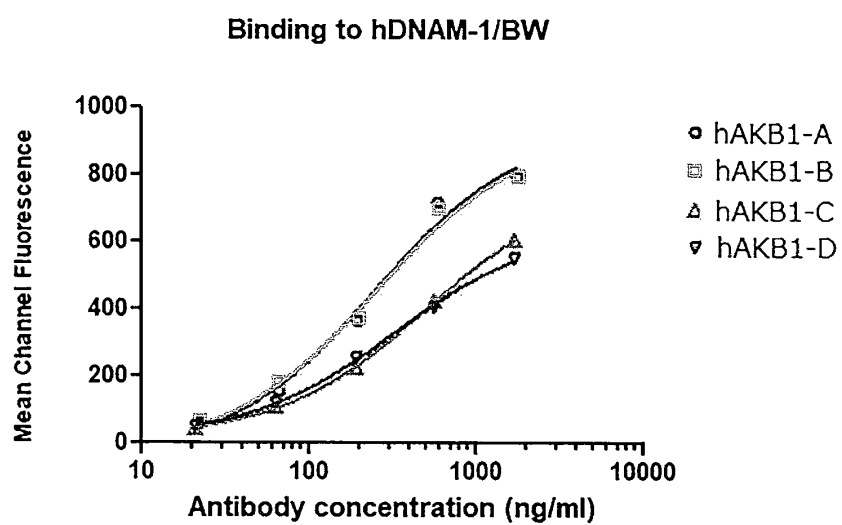
差替え用紙(規則26)

[図3]

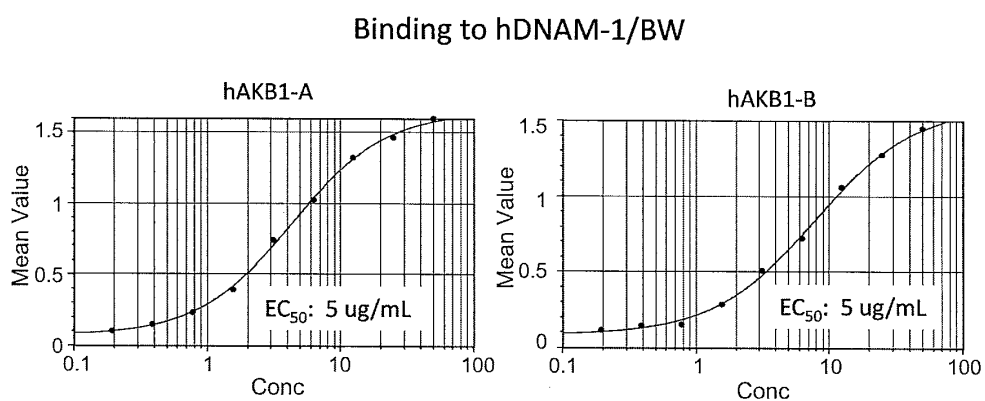
軽鎖可変領域の比較

	1	2	3
	123456789	0123456789	0123456789
mAKB1	SIVMTQTPK	FLLVSA G DRV	TITCKASQSV <u>SNDVAWYQQK</u>
hAKB1 VL1	DIQMTQSPS	SLSASV G DRV	TITCKASQSV <u>SNDVAWYQQK</u>
hAKB1 VL2	DIQMTQSPS	SLSASV G DRV	TITCKASQSV <u>SNDVAWYQQK</u>
KU760971 VL	DIQMTQSPS	SLSASV G DRV	TITC----- <u>-----WYQQK</u>
	4	5	6
	0123456789	0123456789	0123456789
mAKB1	PGQSPKLLIY	<u>YASNRYT</u> GVP	DRFTGSGYGT DFTFTISTVQ
hAKB1 VL1	PGKAPKLLIY	<u>YASNRYT</u> GVP	SRFSGSG Y GT DFTFTIS S LQ
hAKB1 VL2	PGKAPKLLIY	<u>YASNRYT</u> GVP	SRFSGSGSGT DFTFTIS S LQ
KU760971 VL	PGKAPKLLIY	-----GVP	SRFSGSGSGT DFTFTIS S LQ
		1	1
	8	9	0
	0123456789	0123456789	0123456789
mAKB1	AEDLAVYFCQ	<u>QDYSSPLT</u> FG	AGTKLELKRT V
hAKB1 VL1	PEDIATYYCQ	<u>QDYSSPLT</u> FG	GGTKVEIKRT V
hAKB1 VL2	PEDIATYYCQ	<u>QDYSSPLT</u> FG	GGTKVEIKRT V
KU760971 VL	PEDIATYYC-	-----FG	GGTKVEIKRT V

[図4]



[図5]



[図6]

hAKB1-A の重鎖コーディング領域の塩基配列 (配列番号 1 9)

ATGAAAGTGTGAGTCTGTTGACCTGTTGACAGCCATTCTGGTATCCTGTCTCAAGTTCAGCTTCAGG
AGTCAGGACCTGGCCICGIGAAACCTTCTGAGACTCTGTCTCTCACCTGCACTGTGAGTGGCTACTCCAT
CACCAGTGGTTATTACTGGAACGGATCCGGCAGCCTCCAGGAAAAGGACTGGAATGGATGGGCTACATC
AGCTACGACGGCAGCAATAACTACAACCCAAGTCTCAAGAATCGAGTCACCATCAGTCGTGACACATCTA
AGAACCAGTTTTCCCTGAAGTTGAGTTCTGTGACTGCTGCCGACACAGCTGTGTATTACTGTGCAAGGGC
CTACTATGGGAACTAIGTGGGCTACTTCGATGTCTGGGGCCAAGGGACCACTGTCACCGTCTCCTCAGCC
TCCACCAAGGGCCCAICGGTCTTCCCCCTGGCACCCTCCTCCAAGAGCACCTCTGGGGGCACAGCGGGCC
TGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTGCGTGGAACTCAGGCGCCCTGACCAG
CGGCGTGACACCTTCCCGGCTGTCTACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTG
CCCTCCAGCAGCTTGGGCACCCAGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGG
ACAAGAAAGTTGAGCCCAAATCTTGTGACAAAACCTCACACATGCCACCGTGCCACGACCTGAAGCTGC
TGGAGGACCGTCAGTCTTCTCTTCCCCCAAACCCAAGGACACCCTCATGATCTCCCGGACCCCTGAG
GTCACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTGGACGGCG
TGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGTGTGGTCAGCGT
CCTCACCGTCTCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTC
CCAGCCCCCATCGAGAAAACCATCTCCAAAGCCAAAGGGCAGCCCCGAGAAACCACAGGTGTACACCCTGC
CCCCATCCCGGGATGAGCTGACCAAGAACCAGGTGAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCAG
CGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACCTACAAGACCACGCCTCCCGTGCTG
GACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGAACG
TCTTCTCATGCTCCGIGAIGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCC
GGGTAAATGA

【図7】

hAKB1-B の重鎖コーディング領域の塩基配列（配列番号 20）

ATGAAAGTGTGAGTCTGTTGTACCTGTTGACAGCCATTCCCTGGTATCCTGTCTCAAGTTCAGCTTCAGG
AGTCAGGACCTGGCCTCGTGAAACCTTCTGAGACTCTGTCTCTCACCTGCACTGTCAAGTGGCTACTCCAT
CAGCAGTGGTTATTACTGGAAGTGGATCCGGCAGCCTCCAGGAAAAGGACTGGAATGGATGGGGTACATC
AGCTACGACGGCAGCAATAACTACAACCCAAGTCTCAAGAATCGAGTCACCATCAGTCGTGACACATCTA
AGAACCAGTTTTCCCTGAAGTTGAGTTCTGTGACTGCTGCCGACACAGCTGTGTATTACTGTGCAAGGGC
CTACTATGGGAAGTATGTGGGCTACTTCGATGTCTGGGGCCAAGGGACCACTGTCACCGTCTCCTCAGCC
TCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCC
TGGGCTGCCTGGTCAAGGACTACTTCCCGAACCAGGTGACGGTGTCTGTGGAAGTCAAGCGCCCTGACCAG
CGGCGTGACACCTTCCCGGCTGTCTACAGTCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTG
CCCTCCAGCAGCTTGGGCACCCAGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGG
ACAAGAAAGTTGAGCCCAAATCTTGTGACAAAAGTCAACATGCCACCGTGCCAGCACCTGAAGCTGC
TGGAGGACCGTCAGTCTTCTCTTCCCCCAAACCCAAGGACACCCCTCATGATCTCCCGGACCCCTGAG
GTCACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCCTGAGGTCAAGTTCAACTGGTACGTGGACGGCG
TGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGTGTGGTCAGCGT
CCTCACCGTCTCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGAAGGTCTCCAACAAAGCCCTC
CCAGCCCCCATCGAGAAAACCATCTCCAAGGCCAAAGGGCAGCCCCGAGAACACAGGTGTACACCCTGC
CCCCATCCCGGGATGAGCTGACCAAGAACCAGGTGAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCCAG
CGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACTACAAGACCACGCCTCCCGTGCTG
GACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAAGAGCAGGTGGCAGCAGGGGAACG
TCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAAGAGCCTCTCCCTGTCTCC
GGGTAAATGA

【図8】

hAKB1-A および hAKB1-B の軽鎖コーディング領域の塩基配列（配列番号 21）

ATGAAGTCACAGACCCAAGTCTTCGTGTTTCTGCTGCTCTGTGTGTCTGGAGCTCATGGGGATATTCAGA
TGACCCAGAGTCCCAGCTCCCTGTCTGCATCAGTGGGAGACAGGGTTACCATCACCTGCAAGGCCAGTCA
GAGCGTCTCCAATGATGTGCTTGGTACCAACAGAAGCCAGGGAAGGCTCCTAACTGCTGATCTACTAT
GCATCCAATCGCTACACTGGAGTCCCTAGTCGCTTCAGTGGCAGTGGATATGGGACCGATTTCACTTTCA
CCATCAGCAGTCTGCAGCCTGAAGACATCGCAACTTATTACTGTGTCAGCAGGATTATAGCTCTCCACTCAC
TTTCGGAGGAGGGACCAAAGTCGAGATCAAACGAAGTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCA
TCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGCTGCTGAATAACTTCTATCCCAGAGAGG
CCAAAGTACAGTGGAAAGGTGGATAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTACAGAGCAGGA
CAGCAAGGACAGCACCTACAGCCTCAGCAGCACCCCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAA
GTCTACGCCTGCGAAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGT
GTTAG

[図9]

hAKB1-A の重鎖のアミノ酸配列（配列番号 1 6）

MKVLSLLYLLTAIPGIL**SQVQLQESGPGLVKPSETLSLTCTVSGYSITSGYYWNWIRQP**
PGKGLEWMGYISYDGSNNYNPSLKNRVTISRDTSKNQFSLKLSSVTAADTAVYYCARAY
YGNYPGYFDVWGQGT**TVTVSS**ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVT
 VSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKK
 VEPKSCDKTHTCPPCPAPEAAGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEV
 KFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI
 EKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNY
 KTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCSVMEALHNHYTQKSLSLSPGK

hAKB1-B の重鎖のアミノ酸配列（配列番号 1 7）

MKVLSLLYLLTAIPGIL**SQVQLQESGPGLVKPSETLSLTCTVSGYSISSGYYWNWIRQP**
PGKGLEWMGYISYDGSNNYNPSLKNRVTISRDTSKNQFSLKLSSVTAADTAVYYCARAY
YGNYPGYFDVWGQGT**TVTVSS**ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVT
 VSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKK
 VEPKSCDKTHTCPPCPAPEAAGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEV
 KFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI
 EKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNY
 KTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCSVMEALHNHYTQKSLSLSPGK

hAKB1-A および hAKB1-B の軽鎖のアミノ酸配列（配列番号 1 8）

MKSQTQVFVFLLLCVSGAHGDIQMTQSPSSLSASVGDRVTITCKASQSVSNDAWYQQK
PGKAPKLLIYYASNRYTGVPSRFSGSGYGTDFFTISSLPEDIAITYYCQDYSSPLTF
 GGGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSG
 NSQESVTEQDSKDSSTLSLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

bold; variable region**white text;** signal peptideunderline; CDRs

[図10]

hTKB1 の重鎖コーディング領域の塩基配列 (配列番号 2 6)

ATGAAACACCTGTGGTTCTTCCTCCTCCTGGTGGCAGCTCCCAGATGGGTCCCTGTCCCAAGTTCAGCTGC
AAGAATCCGGACCCGGACTGGTGAAGCCCTCCGAGACTTTATCTTTAACTTGTACCGTGAGCGGCTACTC
CATCTCCTCCGGCTACTACTGGAACGGATTCGTCAGCCTCCCGGCAAGGGTTTAGAATGGATGGGCTAC
ATCTCCTACGACGGCTCCAACAACACAACCCCTCTTTAAAGAAATCGTGTGACCATCTCTCGTGACACCT
CCAAGAACCAGTTCTCTTTAAAGCTGTCTCCGTGACAGCCGCCGATACCGCCGTGTACTACTGCGCTCG
TGCCTACTACGGCAACTACGTGGGCTACTTCGACGTGTGGGGCCAAGGTACCACCGTGACAGTCTCCTCC
 GCTAGCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCACCTCTGGGGGCACAGCGG
 CCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTCTGTGGAACCTCAGGCGCCCTGAC
 CAGCGGCGTGCACACCTTCCCGGCCGTCTACAGTCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACC
 GTGCCCTCCAGCAGCTTGGGCACCCAGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGG
 TGGACAAGAAGGTTGAGCCCAAATCTTGTGACAAAACCTACACATGCCCCACCGTGCCCAGCACCTGAAGC
 AGCCGGGGGACCGTCAGTCTTCCTCTTCCCCCAAAACCCAAGGACACCCTCATGATCTCCCGGACCCCT
 GAGGTCACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTGGACG
 GCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGTGTGGTCAG
 CGTCCTCACCCTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGSTCTCCAACAAAGCC
 CTCCCAGCCCCCATCGAGAAAACCATCTCCAAAGCCAAAGGGCAGCCCCGAGAACCACAGGTGTACACCC
 TGCCCCCATCCCGGACGAGCTGACCAAGAACCAGGTGAGCCTGACCTGCCTGGTCAAAGGCTTCTATCC
 CAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACCTACAAGACCACGCCTCCCGIG
 CTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGA
 ACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGIC
 TCCGGGTAAATGATGA

bold; variable region**white text;** signal peptide

[図11]

hTKB1 の軽鎖コーティング領域の塩基配列（配列番号 2 7）

ATGGACATGAGGGTCCCCGCTCAGCTCCTGGGGCTCCTGCTACTCTGGCTCCGAGGTGCCAGATGT**GACA**
TCCAGATGACCCAGTCCCTTCTCTTTAAGCGCTTCCGTGGGCGATCGTGTGACCATCACTTGTAAGGC
CTCCCAGTCCGTGTCCAACGACGTGGCTTGGTACCAGCAGAAGCCCGCAAGGCCCCCAAGCTGCTGATC
TACTACGCCTCCAATCGTTACACCGGCGTGCCTTCTCGTTTTTCCGGCTCCGGCTACGGCACCGACTTCA
CCTTCACCATCTCCTCTTTACAGCCCAGGACATCGCCACCTACTACTGCCAGCAAGATTACTCCTCCCC
TCTGACCTTTGGCGGCGGCACCAAGGTGGAGATCAAGCGTACGGTGGCTGCACCATCTGTCTTCATCTTC
 CCGCCATCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTGTGTGCCTGCTGAATAACTTCTATCCCA
 GAGAGGCCAAAGTACAGTGGAAAGGTGGATAACGCCCTCCAATCGGGTAACTCCAGGAGAGTGTACAGA
 GCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCTGACGCTGAGCAAAGCAGACTACGAGAAA
 CACAAAGTCTACGCCTGCGAAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGG
 GAGAGTGTGATGA

bold; variable region**white text;** signal peptide

[図12]

hTKB1 の重鎖のアミノ酸配列（配列番号 2 4）

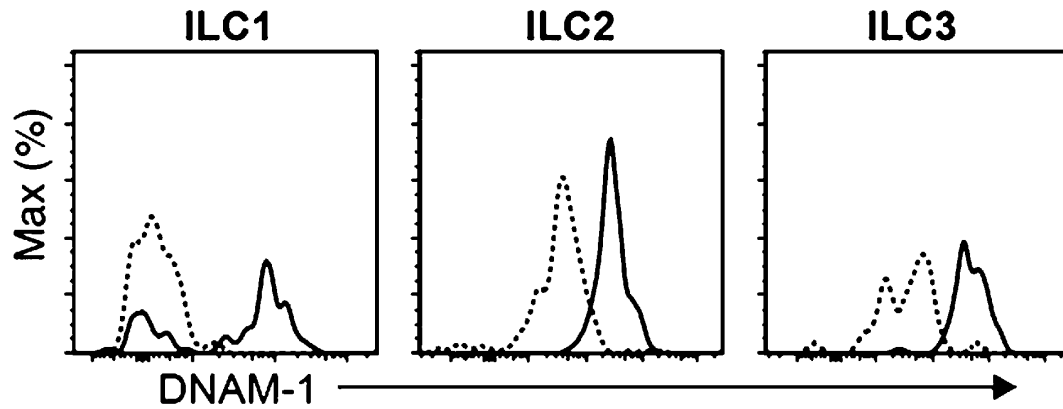
MKHLWFFLLLVAAPRWVLS**QVQLQESGPGLVKPSSETLSLTCTVSGYISISSGYWNWIRQ**
PPGKGLEWMGYISYDGSNNYNPSLKNRVTISRDTSKNQFSLKLSSVTAADTAVYYCARA
YYGNVYGYFDVWGQGT**TVTVSS**ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPV
 TVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQTYICNVNHKPSNTKVDK
 KVEPKSCDKTHTCPPCPAPEAAGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPE
 VKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAP
 IEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENN
 YKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCSVMHEALHNHYTQKSLSLSPGK

hTKB1 の軽鎖のアミノ酸配列（配列番号 2 5）

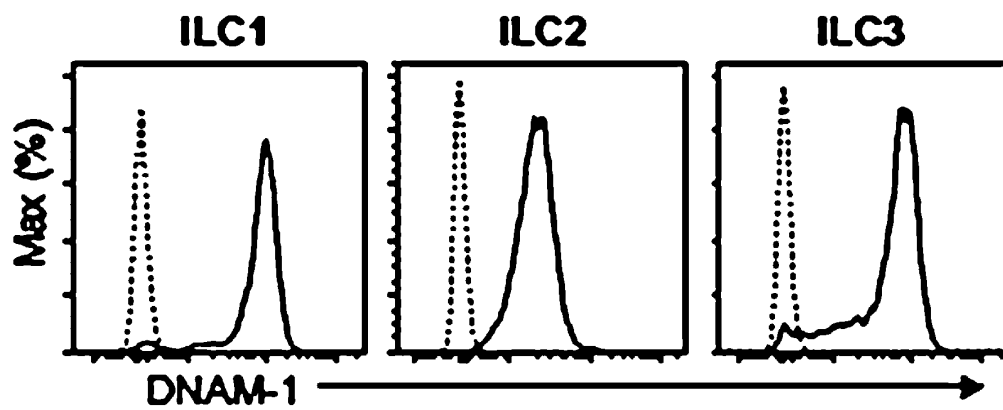
MDMRVPAQLLGLLLWLRLGARC**DIQMTQSPSSLSASVGDRVTITCKASQSVSNDAWYQ**
QKPGKAPKLLIYYASNRYT**GVPSRFRSGSGYGTDFTFITISLQPEDIATYYCQDYSSPL**
TFGGGT**TKVEIKRTVA**APSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQ
 SGNSQESVTEQDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

bold; variable region**white text;** signal peptideunderline; CDRs

[圖13A]

Lung

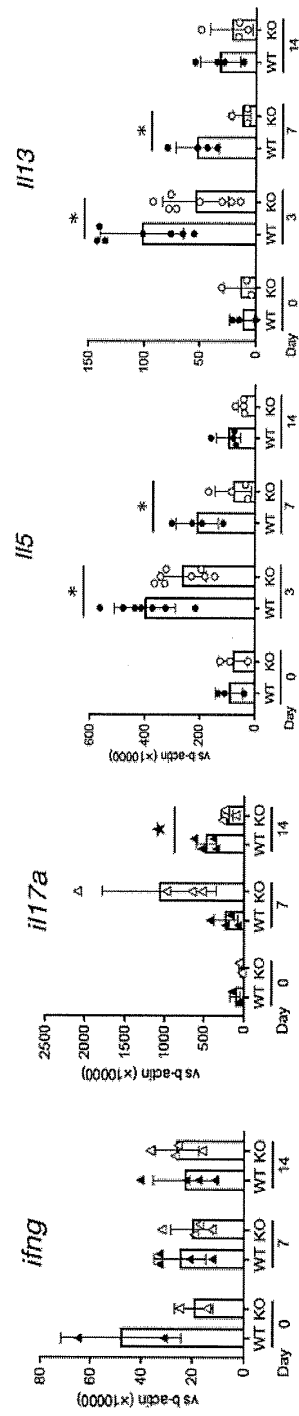
[圖13B]

Intestine

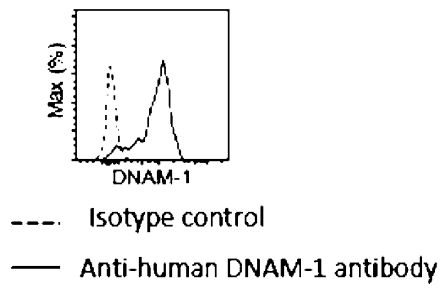
----- Isotype control

—— Anti-mouse DNAM-1 antibody

[図14]



[図15]



[図16]

