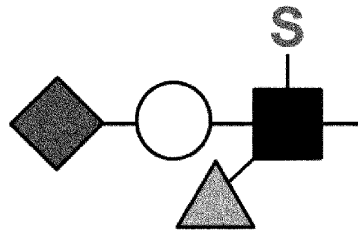
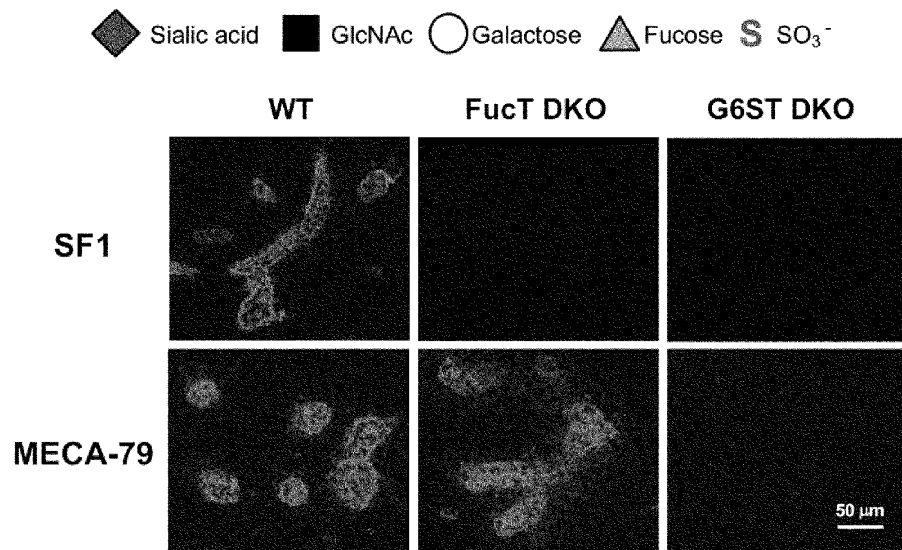


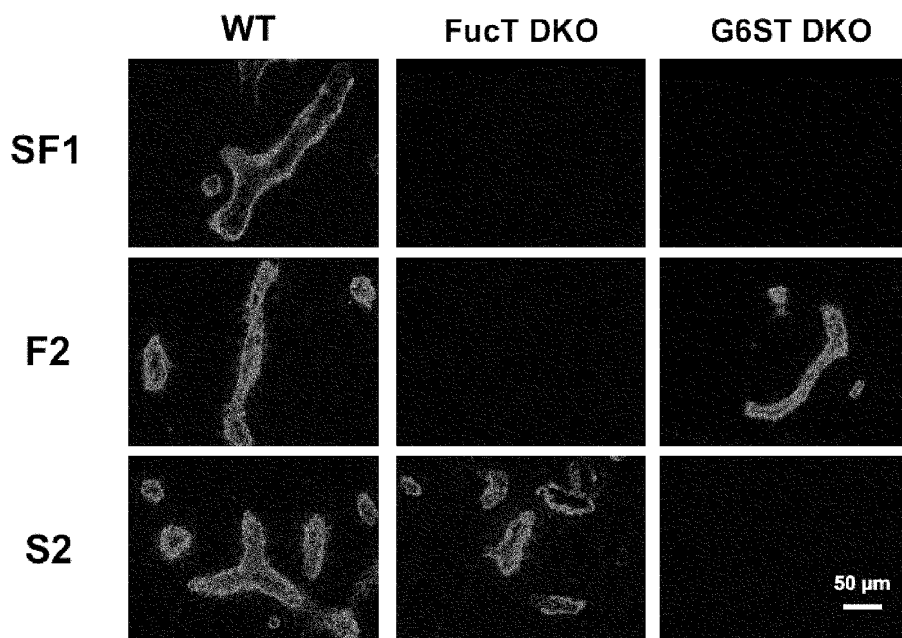
[図1]



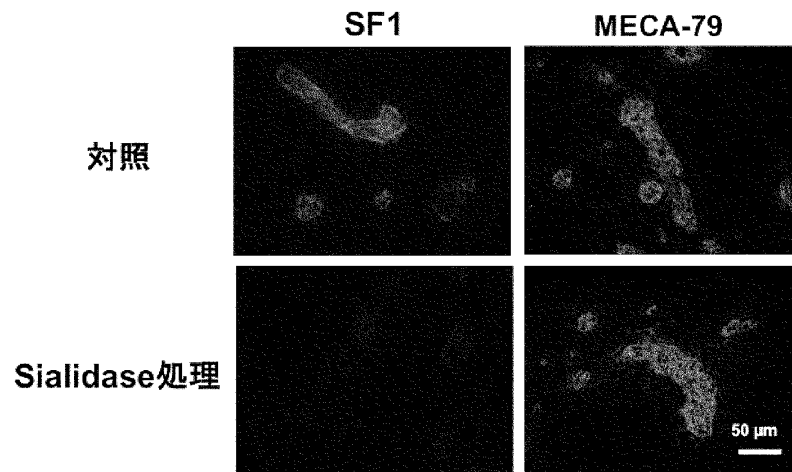
[図2]



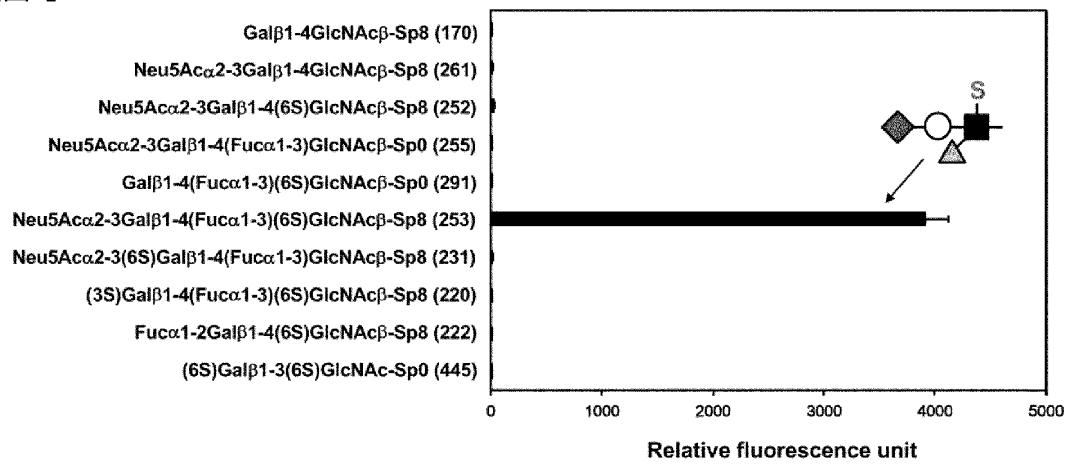
[図3]



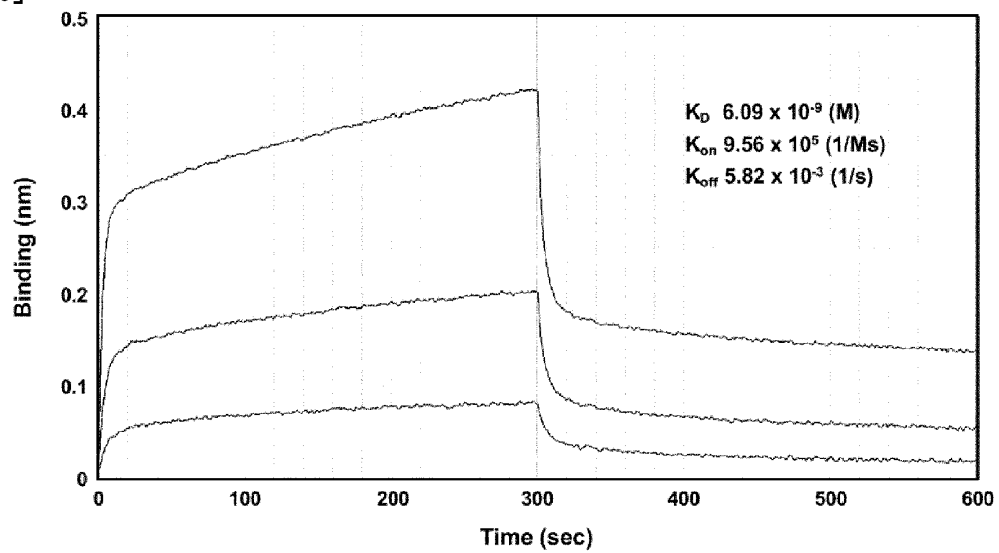
[図4]



[図5]



[図6]



[図7]

	CDR1	CDR2	CDR3
重鎖	GFSLTSYA (配列番号1)	IWGGGST (配列番号2)	AKHEKLGRFPY (配列番号3)
軽鎖	SSVSY (配列番号4)	EIS (配列番号5)	QQWNYPLAT (配列番号6)

[図8]

SF1重鎖可変部 (配列番号13)

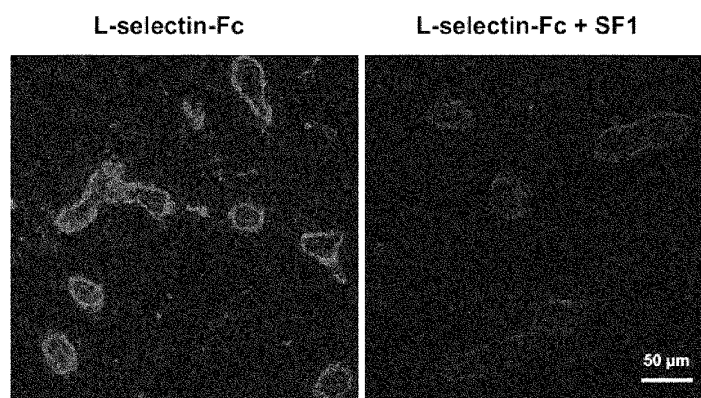
QVQLKESGPGGLVAPSQSLITCTVSG**FSLTSY**AVHWVRQP
 PGKGLEWLGII**WGGGST**NYNSALMSRLSISKDNSKSQVFL
 KMNSLQTDDTAMY**YCAKHEKLGRFPY**WGQGTTLVTVSA

[図9]

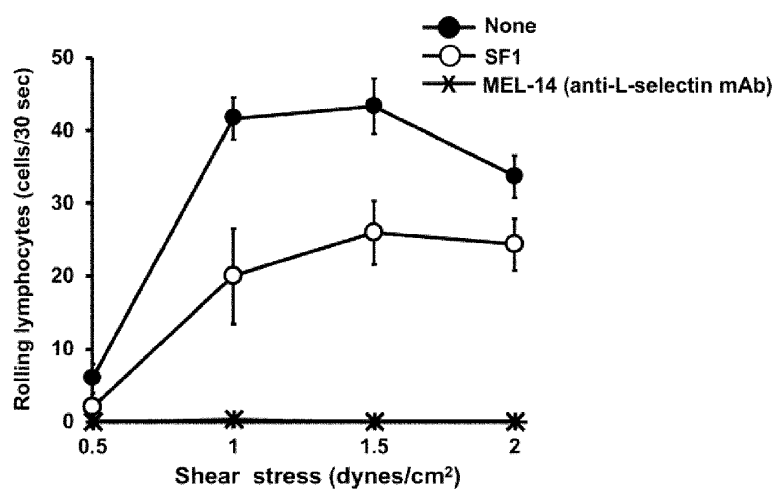
SF1軽鎖可変部 (配列番号14)

EIVLTQSPAITAASLGQKVTITCSASS**SVSYM**HWYQQKSG
 TSPKPWI**YEISK**LASGVPARFSGSGSGTSYSLTISSEAE
 DAAIYYC**QQWNYPLAT**FGGGTKLEIK

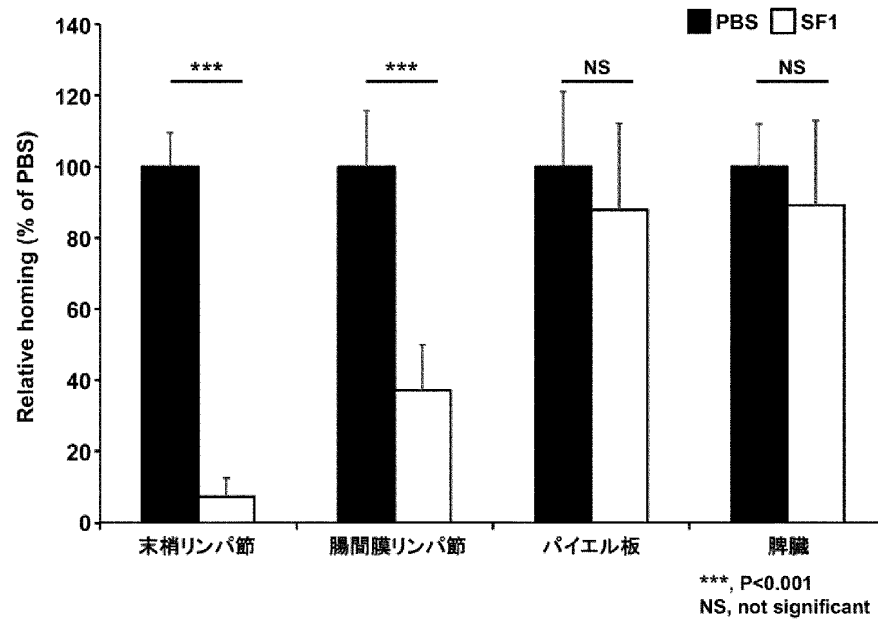
[図10]



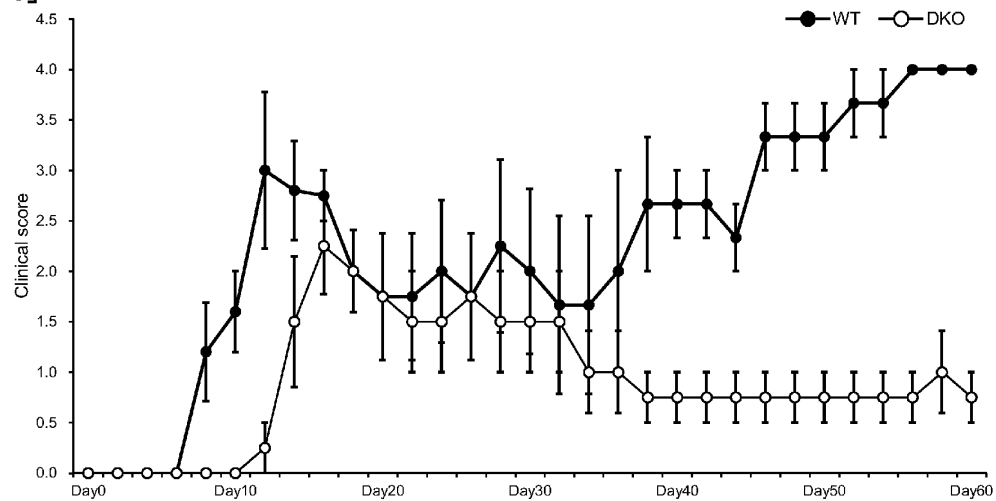
[図11]



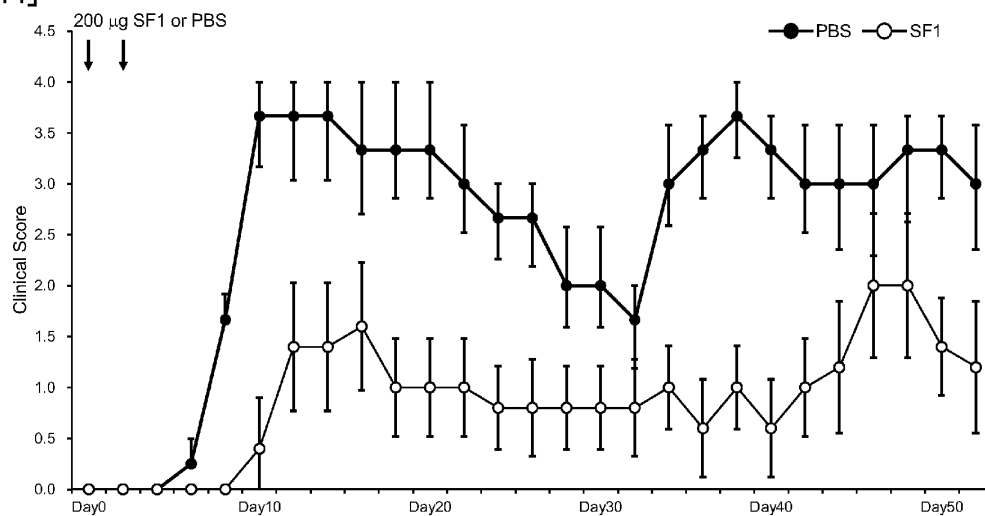
[図12]



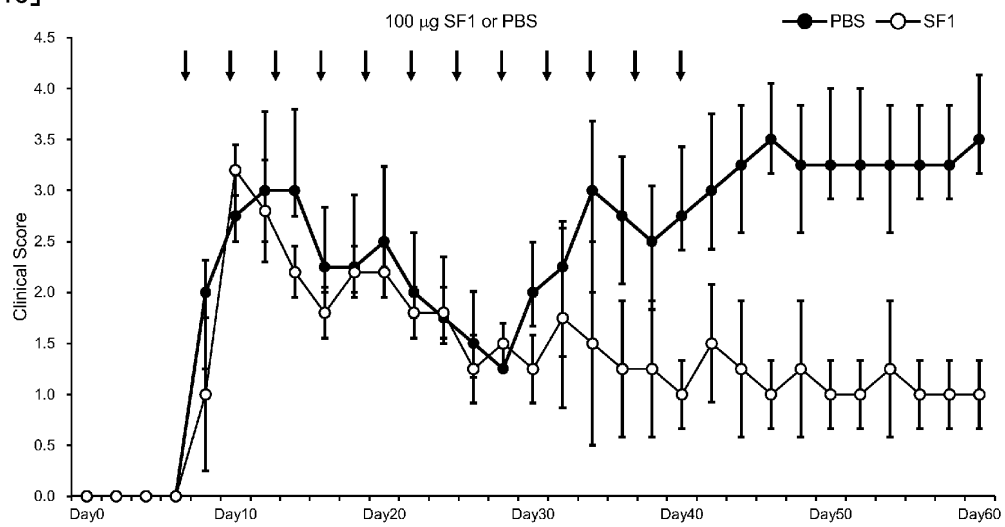
[図13]



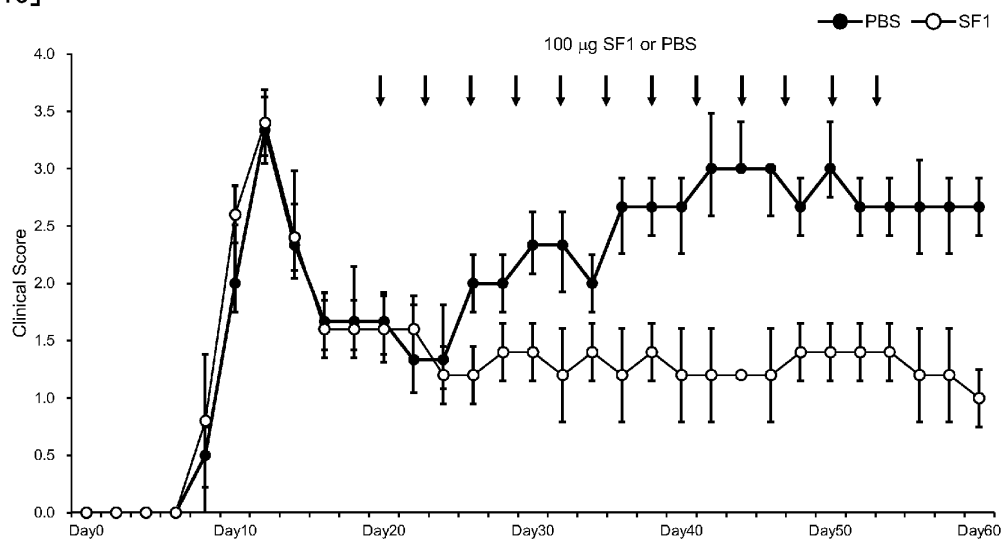
[図14]



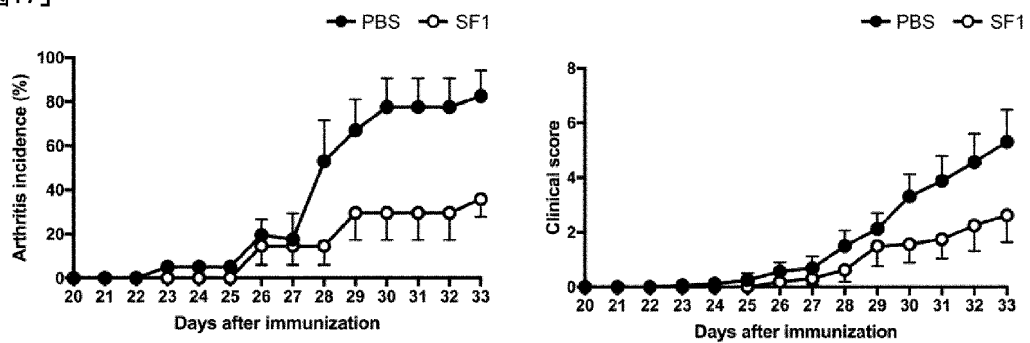
[図15]



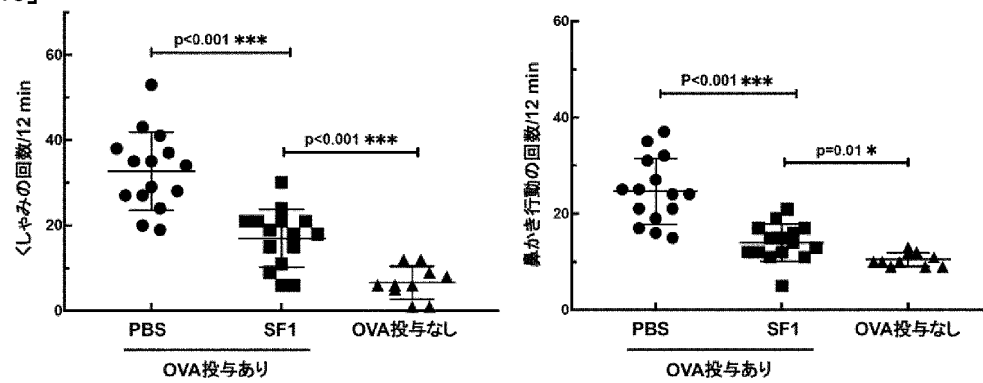
[図16]



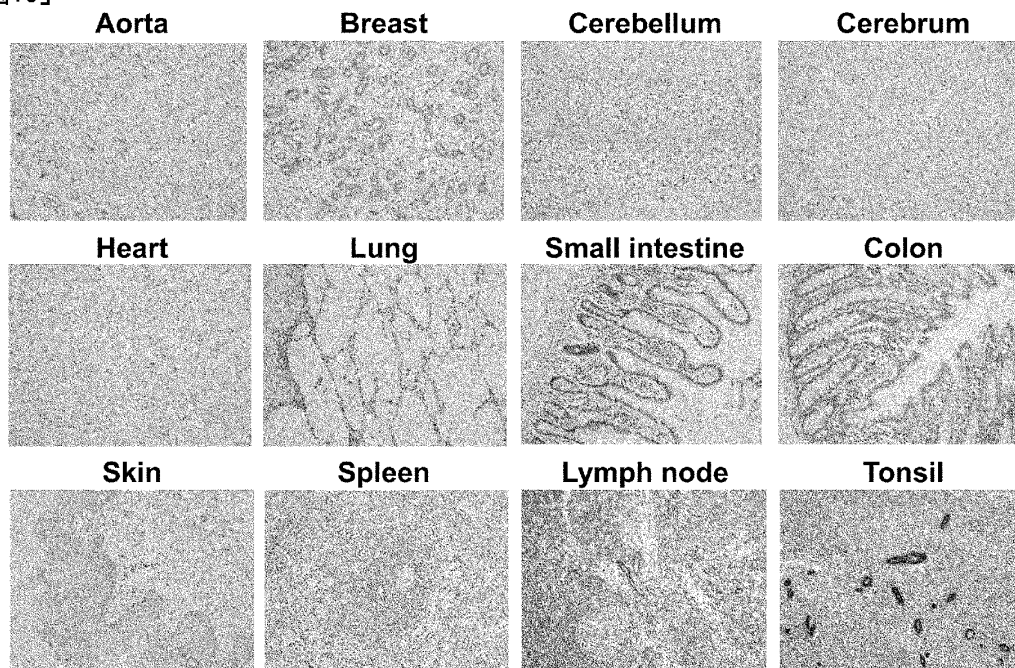
[図17]



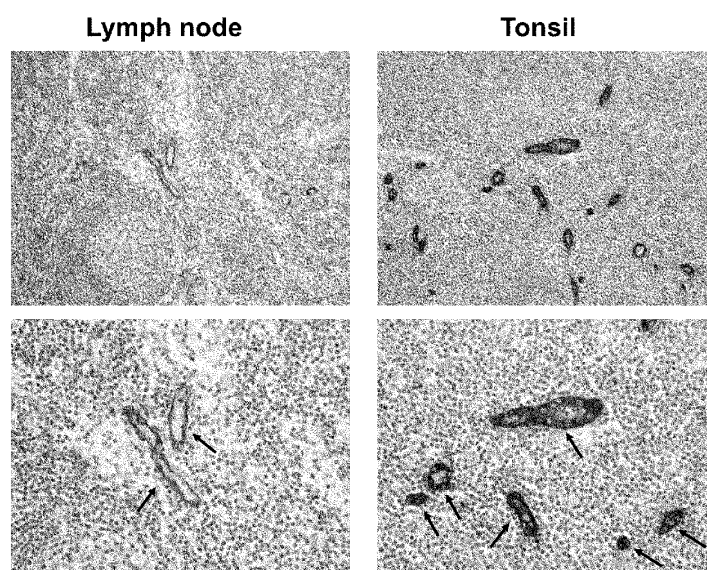
[図18]



[図19]



[図20]



[図21]

ヒト化SF1重鎖可変部H1（配列番号15）

QVQLQESGPGLVKPSSETLSLTCTVSG**FS**LT**SY**AVHWVRQP
PGKGLEWLGII**WG**GGSTNYN**S**ALKSRVTISKDNSKSQVSL
KLSSVTAADTAVYYC**AKHEKLGRFPY**WGQGTTLVTVSS

ヒト化SF1重鎖可変部H2（配列番号16）

QVQLQESGPGLVKPSSETLSLTCTVSG**FS**LT**SY**AVHWIRQP
PGKGLEWIGII**WG**GGSTNYN**S**ALKSRVTISKDNSKSQVSL
KLSSVTAADTAVYYC**AKHEKLGRFPY**WGQGTTLVTVSS

ヒト化SF1重鎖可変部H3（配列番号17）

QVQLVESGGGVVQPGGSLRLSCAVSG**FS**LT**SY**AVHWVRQA
PGKGLEWLGII**WG**GGSTNYN**S**AVKGRFTISKDNSKSSVYL
QMNSLRTEDTALYYC**AKHEKLGRFPY**WGQGTTLVTVSS

ヒト化SF1軽鎖可変部L1（配列番号18）

EIQLTQSPSSLSASVGDRVITITCRASS**SV**SYMHYQOKPG
KAPKPLIYE**ISK**LASGVPSRFSGSGSGTDYTLTISSLQPE
DFATYYC**QQWNYPLATF**GGG**TKLEIK**

ヒト化SF1軽鎖可変部L2（配列番号19）

DIQLTQSPSSLSASVGDRVITITCRASS**SV**SYMHYQOKPG
KAPKPLIYE**ISK**LASGVPSRFSGSGSGTDYTLTISSLQPE
DFATYYC**QQWNYPLATF**GGG**TKLEIK**

ヒト化SF1軽鎖可変部L3（配列番号20）

EIVLTQSPDFQSVTPKEKVTITCRASS**SV**SYMHYQOKPD
QSPKPLIYE**ISK**LASGVPSRFSGSGSGTDYTLTINSLEAE
DAATYYC**QQWNYPLATF**GGG**TKLEIK**

[図22]

ヒト化SF1-scFv-H1L1（配列番号21）

QVQLQESGPGGLVKPSETLSLTCTVSG**FSLTSY**AVHWVRQP
PGKGLEWLGII**WG**GGSTNYSALKSRVTISKDNSKSQVSL
KLSSVTAADTAVYYCA**KHEKLGRFPY**WGQGLVTVSSGGG
GSGGGGSGGGGSEIQLTQSPSSLSASVGDRVITITCRASS**S**
VSYMHWYQQKPGKAPKPLI**YEISK**LASGVPSRFSGSGSGT
DYTLTISSLQPEDFATYYC**QQWNYPLAT**FGGGTKLEIK**GL**
QQGGTHHHHHH

ヒト化SF1-scFv-H1L2（配列番号22）

QVQLQESGPGGLVKPSETLSLTCTVSG**FSLTSY**AVHWVRQP
PGKGLEWLGII**WG**GGSTNYSALKSRVTISKDNSKSQVSL
KLSSVTAADTAVYYCA**KHEKLGRFPY**WGQGLVTVSSGGG
GSGGGGSGGGGSDIQLTQSPSSLSASVGDRVITITCRASS**S**
VSYMHWYQQKPGKAPKPLI**YEISK**LASGVPSRFSGSGSGT
DYTLTISSLQPEDFATYYC**QQWNYPLAT**FGGGTKLEIK**GL**
QQGGTHHHHHH

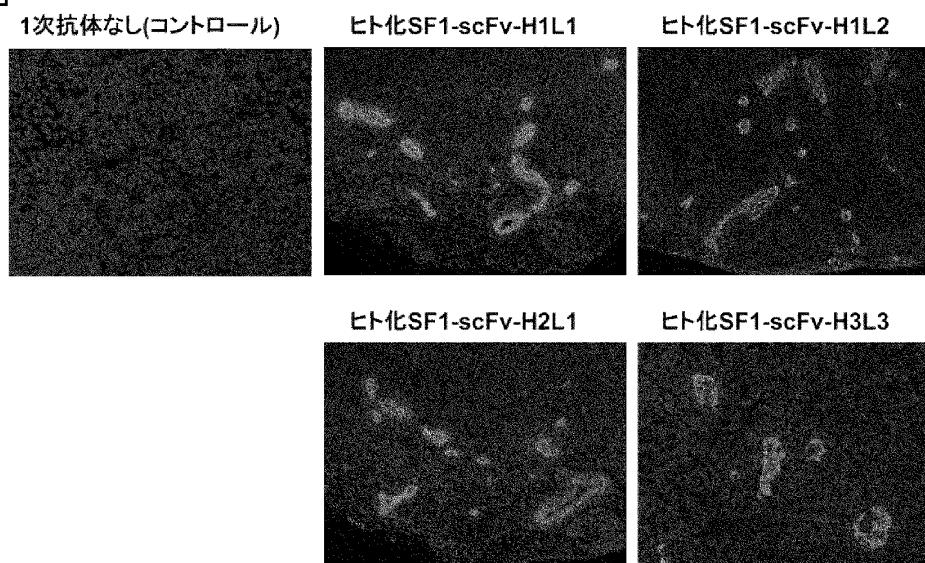
ヒト化SF1-scFv-H2L1（配列番号23）

QVQLQESGPGGLVKPSETLSLTCTVSG**FSLTSY**AVHWIRQP
PGKGLEWIGII**WG**GGSTNYSALKSRVTISKDNSKSQVSL
KLSSVTAADTAVYYCA**KHEKLGRFPY**WGQGLVTVSSGGG
GSGGGGSGGGGSEIQLTQSPSSLSASVGDRVITITCRASS**S**
VSYMHWYQQKPGKAPKPLI**YEISK**LASGVPSRFSGSGSGT
DYTLTISSLQPEDFATYYC**QQWNYPLAT**FGGGTKLEIK**GL**
QQGGTHHHHHH

ヒト化SF1-scFv-H3L3（配列番号24）

QVQLVESGGGVVQPGGSLRLSCAVS**GFS**LTSYAVHWVRQA
PGKGLEWLGII**WG**GGSTNYSAAVKGRFTISKDNSKSSVYL
QMNSLRTEDTALYYCA**KHEKLGRFPY**WGQGLVTVSSGGG
GSGGGGSGGGGSEIVLTQSPDFQSVTPKEKVTITCRASS**S**
VSYMHWYQQKPDQSPKPLI**YEISK**LASGVPSRFSGSGSGT
DYTLTINSLEAEDAATYYC**QQWNYPLAT**FGGGTKLEIK**GL**
QQGGTHHHHHH

[図23]



[図24]

ヒト化SF1重鎖全長（配列番号25）

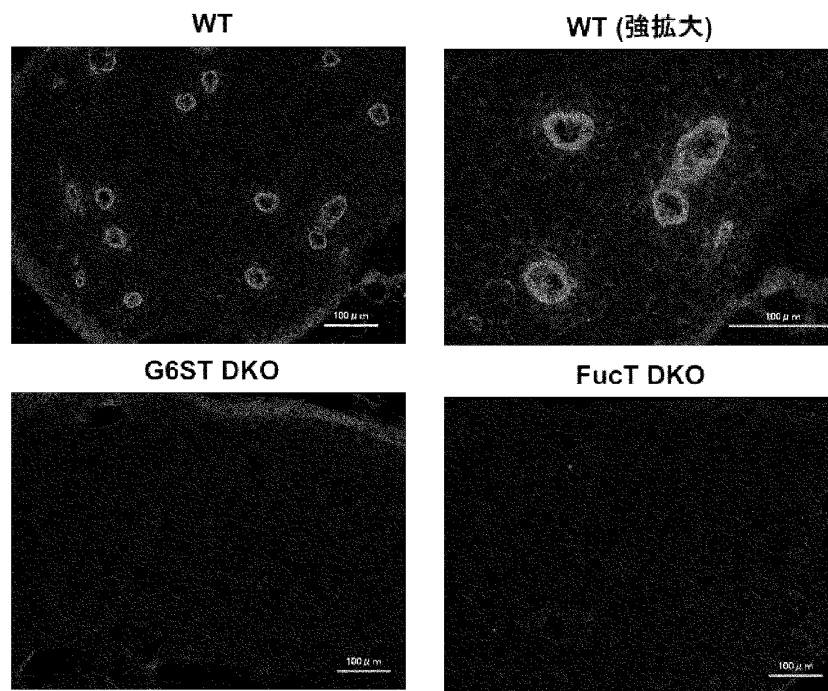
QVQLQESGPGGLVKPSETLSLTCTVSG**FS**LT**SY**AVHWVRQP
 PGKGLEWLGII**WG**GGSTNYSALKSRVTISKDNSKSQVSL
 KLSSVTAADTAVYYCA**KHEKLGRFPY**WGQGLTVTVSSAST
 KGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNS
 GALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYIC
 NVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSV
 FLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVD
 GVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTK
 NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMEALHNHYTQKSLSLSPGK

[図25]

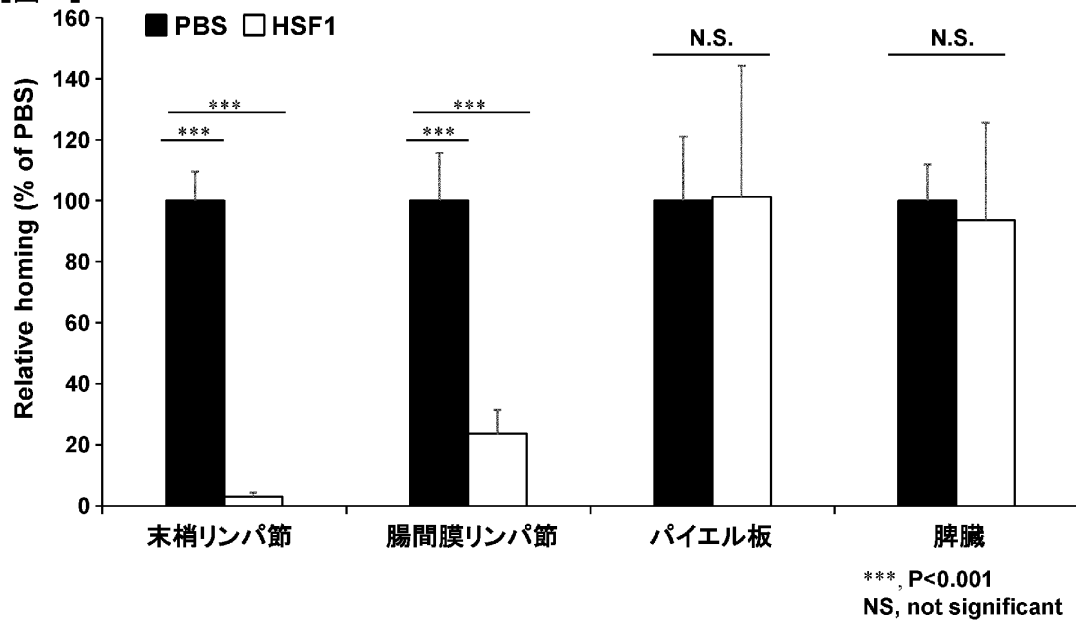
ヒト化SF1軽鎖全長（配列番号26）

EIQLTQSPSSLSASVGDRVTITCRASS**SV**SYMHWYQQKPG
 KAPKPLIYE**ISK**LASGVPSRFSGSGSGTDYTLTISSLOPE
 DFATYYC**Q**QWNY**PLAT**FGGGTKLEIKRTVAAPSVFIFPPS
 DEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQE
 SVTEQDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

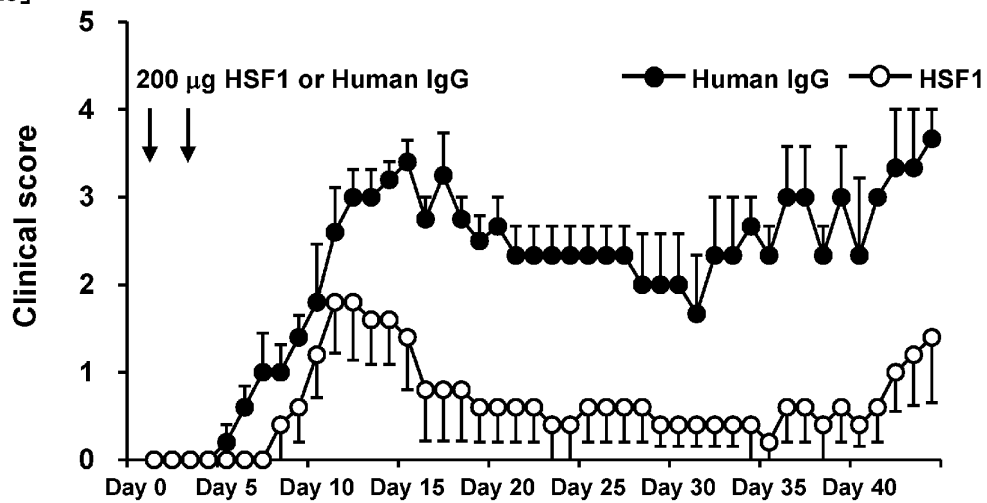
[図26]



[図27]



[図28]



[図29]

ヒト化SF1重鎖IgG1-LALA体全長（配列番号27）

QVQLQESGPGGLVKPSETLSLTCTVSGFSLTSYAVHWVRQP
 PGKGLEWLGIIWGGGSTNYNNSALKSRVTISKDNSKSQVSL
 KLSSVTAADTAVYYCAKHEKLGRFPYWGQGTLLVTVSSAST
 KGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNS
 GALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYIC
 NVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPEAAGGPSV
 FLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVD
 GVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTK
 NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGS
 FFLYSLKLTVDKSRWQQGNVVFSCSVMHEALHNHYTQKSLSLSPGK

[図30]

ヒト化SF1重鎖IgG4-SPLE体全長（配列番号28）

QVQLQESGPGGLVKPSETLSLTCTVSGFSLTSYAVHWVRQP
 PGKGLEWLGIIWGGGSTNYNNSALKSRVTISKDNSKSQVSL
 KLSSVTAADTAVYYCAKHEKLGRFPYWGQGTLLVTVSSAST
 KGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNS
 GALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYTC
 NVDHKPSNTKVDKRVESKYGPCCPPCPAPEFEGGPSVFLF
 PPKPKDTLMISRTPEVTCVVVDVSQEDPEVQFNWYVDGVE
 VHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKV
 SNKGLPSSIEKTISKAKGQPREPQVYTLPPSQEEMTKNQV
 SLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGS
 FFLYSRLTVDKSRWQEGNVVFSCSVMHEALHNHYTQKSLSL
 SLGK

[図31]

