FIG.1

SEQ ID NO: 7: Nucleotide sequence of cTINA1 antibody heavy chain

atgaaacacctgtggttcttcctcctgctggtggcagctcccagatgggtgctgagccagatccag
ttggtgcagtctggacctgagctgaagaagcctggagagacagtcaggatctcctgcaaggcttct
gggtataccttcacaactgctggaatgcagtgggtgcaaaagatgccaggaaagggtttgaagtgg
attggctggataaacacccactctggagtgccaaaatatgcagaagacttcaagggacggtttgcc
ttctctttggaaacctctgccagcactgcatatttacagataagcaacctcaaaaatgaggacacg
actacgtatttctgtgcgagatcggggttcggtagtagctactggtacttcgatgtctggggcgca
gggaccgcggtcaccgtcagctcagcctccaccaagggcccaagcgtcttccccctggcaccctcc
tccaagagcacctctggcggcacagccgccctgggctgcctggtcaaggactacttccccgaaccc
gtgaccgtgagctggaactcaggcgccctgaccagcggcgtgcacaccttccccgctgtcctgcag
tcctcaggactctactccctcagcagcgtggtgaccgtgccctccagcagcttgggcacccagacc
tacatctgcaacgtgaatcacaagcccagcaacaccaaggtggacaagagagttgagcccaaatct
tgtgacaaaactcacacatgcccaccctgcccagcacctgaactcctgggggggaccctcagtcttc
ctcttccccccaaaacccaaggacaccctcatgatctcccggaccctgaggtcacatgcgtggtg
gtggacgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcgtggaggtgcat
aatgccaagacaaagccccgggaggagcagtacaacagcacgtaccgggtggtcagcgtcctcacc
gtcctgcaccaggactggctgaatggcaaggagtacaagtgcaaggtctccaacaaagccctccca
gcccccatcgagaaaaccatctccaaagccaaaggccagccccgggaaccacaggtgtacaccctg
cccccatcccgggaggagatgaccaagaaccaggtcagcctgacctgcctggtcaaaggcttctat
cccagcgacatcgccgtggagtgggagagcaatggccagcccgagaacaactacaagaccacccct
cccgtgctggactccgacggctccttcttcctctacagcaagctcaccgtggacaagagcaggtgg
cagcagggcaacgtcttctcatgctccgtgatgcatgaggctctgcacaaccactacacccagaag
agcctctccctgtctcccggcaaa

Signal sequence (1-57), variable region (58-420), constant region (421-1410)

SEQ ID NO: 8: Amino acid sequence of cTINA1 antibody heavy chain

MKHLWFFLLLVAAPRWVLSQIQLVQSGPELKKPGETVRISCKASGYTFTTAGMQWVQKMPGKGLKWIGWINT
HSGVPKYAEDFKGRFAFSLETSASTAYLQISNLKNEDTTTYFCARSGFGSSYWYFDVWGAGTAVTVSSASTK
GPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSL
GTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVD
VSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIS
KAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSK
LTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Signal sequence (1-19), variable region (20-140), constant region (141-470)

FIG.2

SEQ ID NO: 9: Nucleotide sequence of cTINA1 antibody light chain

atggtgctgcagacccaggtgttcatctccctgctgctgtggatctccggcgcgtacggcgacatt
gtgatgacccagtctcacaaattcatgtccacatcagtaggagacagggtcagcatcacctgcaag
gccagtcaggatgtgagtactgctgtagcctggtatcaacagaaaccaggacaatctcctaaactg
ctgatttactcggcatcctaccgctacactggagtccctgatcgcttcactggcagtggatctggg
acggctttcactttcaccatcagcagtgtgcaggctgaagacctggcagtttattactgtcagcaa
cattatattactccgctcacgttcggtgctgggaccaagctggagctgaaacgggctgtggccgcc
ccctccgtgttcatcttcccccctccgacgagcagctgaagtccggcaccgcctccgtggtgtgc
ctgctgaataacttctaccccagagaggccaaggtgcagtggaaggtggacaacgccctgcagtcc
gggaactcccaggagagcgtgaccgagcaggacagcaaggacagcacctacagcctgagcagcacc
ctgaccctgagcaaagccgactacgagaagcacaaggtgtacgcctgcgaggtgacccaccagggc
ctgagctcccccgtcaccaagagcttcaacaggggggagtgt

Signal sequence (1-60), variable region (61-387), constant region (388-702)

SEQ ID NO: 10: Amino acid sequence of cTINA1 antibody light chain

MVLQTQVFISLLLWISGAYGDIVMTQSHKFMSTSVGDRVSITCKASQDVSTAVAWYQQKPGQSPKLLIYSAS
YRYTGVPDRFTGSGSGTAFTFTISSVQAEDLAVYYCQQHYITPLTFGAGTKLELKRAVAAPSVFIFPPSDEQ
LKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEV
THQGLSSPVTKSFNRGEC

Signal sequence (1-20), variable region (21-129), constant region (130-234)

FIG.3

SEQ ID NO: 11: Nucleotide sequence of hTINA1-H1

atgaaacacctgtggttcttcctcctgctggtggcagctcccagatgggtgctgagccaggtgcagctggtg
cagtctggcgccgaagtgaagaaaccaggcgccagcgtgaaggtgtcctgcaaggccagcggctacaccttt
accaccgccggcatgcagtgggtgcgccaggctcctggacagggcctggaatggatgggctggatcaacacc
cacagcggcgtgcccaaatacgccgaggacttcaagggcagagtgaccatcagcgccgacaccagcacctcc
acagcctacctgcagctgagcagcctgaagtccgaggacaccgccgtgtactactgcgccagaagcggcttc
ggcagcagctactggtacttcgacgtgtggggccagggcaccctcgtgaccgtcagctcagcctccaccaag
ggcccaagcgtcttccccctggcaccctcctccaagagcacctctggcggcacagccgccctgggctgcctg
gtcaaggactacttccccgaaccgtgaccgtgagctggaactcaggcgccctgaccagcggcgtgcacacc
ttccccgctgtcctgcagtcctcaggactctactccctcagcagcgtggtgaccgtgccctccagcagcttg
ggcacccagacctacatctgcaacgtgaatcacaagcccagcaacaccaaggtggacaagagagttgagccc
aaatcttgtgacaaaactcacacatgcccaccctgcccagcacctgaactcctgggggggaccctcagtcttc
ctcttccccccaaaacccaaggacaccctcatgatctcccggacccctgaggtcacatgcgtggtggtggac
gtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcgtggaggtgcataatgccaagaca
aagccccgggaggagcagtacaacagcacgtaccgggtggtcagcgtcctcaccgtcctgcaccaggactgg
ctgaatggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccccatcgagaaaaccatctcc
aaagccaaaggccagccccgggaaccacaggtgtacaccctgcccccatcccgggaggagatgaccaagaac
caggtcagcctgacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagcaatggc
cagcccgagaacaactacaagaccacccctcccgtgctggactccgacggctccttcttcctctacagcaag
ctcaccgtggacaagagcaggtggcagcagggcaacgtcttctcatgctccgtgatgcatgaggctctgcac
aaccactacacccagaagagcctctccctgtctcccggcaaa

Signal sequence (1-57), variable region (58-420), constant region (421-1410)

SEQ ID NO: 12: Amino acid sequence of hTINA1-H1

MKHLWFFLLLVAAPRWVLSQVQLVQSGAEVKKPGASVKVSCKASGYTFTTAGMQWVRQAPGQGLEWMGWINT
HSGVPKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSGFGSSYWYFDVWGQGTLVTVSSASTK
GPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSL
GTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVD
VSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIS
KAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSK
LTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Signal sequence (1-19), variable region (20-140), constant region (141-470)

FIG.4

SEQ ID NO: 13: Nucleotide sequence of hTINA1-H2

atgaaacacctgtggttcttcctcctgctggtggcagctcccagatgggtgctgagccaggtgcagctggtg
cagtctggcgccgaagtgaagaaaccaggcgccagcgtgaaggtgtcctgcaaggccagcggctacaccttt
accaccgccggcatgcagtgggtgcgccaggctcctggacagggcctggaatggatgggctggatcaacacc
cacagcggcgtgcccaaatacgccgaggacttcaagggcagagtgaccatcagcctggacaccagcacctcc
accgcctacctgcagctgagcagcctgaagtccgaggacaccgccgtgtactactgcgccagaagcggcttc
ggcagcagctactggtacttcgacgtgtggggccagggcaccctcgtgaccgtcagctcagcctccaccaag
ggcccaagcgtcttccccctggcaccctcctccaagagcacctctggcggcacagccgccctgggctgcctg
gtcaaggactacttccccgaaccgtgaccgtgagctggaactcaggcgccctgaccagcggcgtgcacacc
ttccccgctgtcctgcagtcctcaggactctactccctcagcagcgtggtgaccgtgccctccagcagcttg
ggcacccagacctacatctgcaacgtgaatcacaagcccagcaacaccaaggtggacaagagagttgagccc
aaatcttgtgacaaaactcacacatgcccaccctgcccagcacctgaactcctgggggggaccctcagtcttc
ctcttccccccaaaacccaaggacaccctcatgatctcccggacccctgaggtcacatgcgtggtggtggac
gtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcgtggaggtgcataatgccaagaca
aagccccgggaggagcagtacaacagcacgtaccgggtggtcagcgtcctcaccgtcctgcaccaggactgg
ctgaatggcaaggagtacaagtgcaaggtctccaacaaagccctcccagccccatcgagaaaaccatctcc
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caggtcagcctgacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagcaatggc
cagcccgagaacaactacaagaccacccctcccgtgctggactccgacggctccttcttcctctacagcaag
ctcaccgtggacaagagcaggtggcagcagggcaacgtcttctcatgctccgtgatgcatgaggctctgcac
aaccactacacccagaagagcctctccctgtctcccggcaaa

Signal sequence (1-57), variable region (58-420), constant region (421-1410)

SEQ ID NO: 14: Amino acid sequence of hTINA1-H2

MKHLWFFLLLVAAPRWVLSQVQLVQSGAEVKKPGASVKVSCKASGYTFTTAGMQWVRQAPGQGLEWMGWINT
HSGVPKYAEDFKGRVTISLDTSTSTAYLQLSSLKSEDTAVYYCARSGFGSSYWYFDVWGQGTLVTVSSASTK
GPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSL
GTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVD
VSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIS
KAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSK
LTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Signal sequence (1-19), variable region (20-140), constant region (141-470)

FIG.5

SEQ ID NO: 15: Nucleotide sequence of hTINA1-H3

atgaaacacctgtggttcttcctcctgctggtggcagctcccagatgggtgctgagccagatccagctggtg
cagtctggcgccgaagtgaagaaacccggcgagagcgtgaaggtgtcctgcaaggccagcggctacacctttt
accaccgccggcatgcagtgggtgcagcagatgcctggcaagggcctggaatggatgggctggatcaacacc
cacagcggcgtgcccaaatacgccgaggacttcaagggcagagtgaccttcagcctggacaccagcacctcc
accgcctacctgcagctgagcagcctgaagtccgaggacaccgccgtgtactactgcgccagaagcggcttc
ggcagcagctactggtacttcgacgtgtggggccagggcaccctcgtgaccgtcagctcagcctccaccaag
ggcccaagcgtcttccccctggcaccctcctccaagagcacctctggcggcacagccgccctgggctgcctg
gtcaaggactacttccccgaaccgtgaccgtgagctggaactcaggcgccctgaccagcggcgtgcacacc
ttccccgctgtcctgcagtcctcaggactctactccctcagcagcgtggtgaccgtgccctccagcagcttg
ggcacccagacctacatctgcaacgtgaatcacaagcccagcaacaccaaggtggacaagagagttgagccc
aaatcttgtgacaaaactcacacatgcccaccctgcccagcacctgaactcctgggggggaccctcagtcttc
ctcttccccccaaaacccaaggacaccctcatgatctcccggaccctgaggtcacatgcgtggtggtggac
gtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcgtggaggtgcataatgccaagaca
aagccccgggaggagcagtacaacagcacgtaccgggtggtcagcgtcctcaccgtcctgcaccaggactgg
ctgaatggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccccatcgagaaaaccatctcc
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caggtcagcctgacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagcaatggc
cagcccgagaacaactacaagaccacccctcccgtgctggactccgacggctccttcttcctctacagcaag
ctcaccgtggacaagagcaggtggcagcagggcaacgtcttctcatgctccgtgatgcatgaggctctgcac
aaccactacacccagaagagcctctccctgtctcccggcaaa

Signal sequence (1-57), variable region (58-420), constant region (421-1410)

SEQ ID NO: 16: Amino acid sequence of hTINA1-H3

MKHLWFFLLLVAAPRWVLSQIQLVQSGAEVKKPGESVKVSCKASGYTFTTAGMQWVQQMPGKGLEWMGWINT
HSGVPKYAEDFKGRVTFSLDTSTSTAYLQLSSLKSEDTAVYYCARSGFGSSYWYFDVWGQGTLVTVSSASTK
GPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSL
GTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVD
VSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIS
KAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSK
LTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Signal sequence (1-19), variable region (20-140), constant region (141-470)

FIG.6

SEQ ID NO: 17: Nucleotide sequence of hTINA1-L1

atggtgctgcagacccaggtgttcatctccctgctgctgtggatctccggcgcgtacggcgacatccagatg
acccagagccctagcagcctgagcgccagcgtgggcgacagagtgaccatcacatgcaaggccagccaggac
gtgtccacagccgtggcctggtatcagcagaagcctggcaaggcccccaagctgctgatctacagcgccagc
taccggtacaccggcgtgcccagcagattttctggcagcggctccggcaccgacttcaccctgacaatcagc
agcctgcagcccgaggacttcgccgtgtactactgccagcagcactacatcacccccctgacctttggccag
ggcaccaagctggaaatcaagcgtacggtggccgcccctccgtgttcatcttcccccctccgacgagcag
ctgaagtccggcaccgcctccgtggtgtgcctgctgaataacttctaccccagagaggccaaggtgcagtgg
aaggtggacaacgccctgcagtccgggaactcccaggagagcgtgaccgagcaggacagcaaggacagcacc
tacagcctgagcagcaccctgaccctgagcaaagccgactacgagaagcacaaggtgtacgcctgcgaggtg
acccaccagggcctgagctcccccgtcaccaagagcttcaacaggggggagtgt

Signal sequence (1-60), variable region (61-387), constant region (388-702)

SEQ ID NO: 18: Amino acid sequence of hTINA1-L1

MVLQTQVFISLLLWISGAYGDIQMTQSPSSLSASVGDRVTITCKASQDVSTAVAWYQQKPGKAPKLLIYSAS
YRYTGVPSRFSGSGSGTDFTLTISSLQPEDFAVYYCQQHYITPLTFGQGTKLEIKRTVAAPSVFIFPPSDEQ
LKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEV
THQGLSSPVTKSFNRGEC

Signal sequence (1-20), variable region (21-129), constant region (130-234)

FIG.7

SEQ ID NO: 19: Nucleotide sequence of hTINA1-L2

atggtgctgcagacccaggtgttcatctccctgctgctgtggatctccggcgcgtacggcgacatcgtgatg
acccagagccctagcagcctgagcgccagcgtgggcgacagagtgaccatcacatgcaaggccagccaggac
gtgtccacagccgtggcctggtatcagcagaagcctggcaaggcccccaagctgctgatctacagcgccagc
taccggtacaccggcgtgcccagcagattttctggcagcggctccggcaccgacttcaccctgacaatcagc
agcctgcagcccgaggacttcgccgtgtactactgccagcagcactacatcacccccctgacctttggccag
ggcaccaagctggaaatcaagcgtacggtggccgcccctccgtgttcatcttcccccctccgacgagcag
ctgaagtccggcaccgcctccgtggtgtgcctgctgaataacttctaccccagagaggccaaggtgcagtgg
aaggtggacaacgccctgcagtccgggaactcccaggagagcgtgaccgagcaggacagcaaggacagcacc
tacagcctgagcagcaccctgaccctgagcaaagccgactacgagaagcacaaggtgtacgcctgcgaggtg
acccaccagggcctgagctcccccgtcaccaagagcttcaacaggggggagtgt

Signal sequence (1-60), variable region (61-387), constant region (388-702)

SEQ ID NO: 20: Amino acid sequence of hTINA1-L2

MVLQTQVFISLLLWISGAYGDIVMTQSPSSLSASVGDRVTITCKASQDVSTAVAWYQQKPGKAPKLLIYSAS
YRYTGVPSRFSGSGSGTDFTLTISSLQPEDFAVYYCQQHYITPLTFGQGTKLEIKRTVAAPSVFIFPPSDEQ
LKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEV
THQGLSSPVTKSFNRGEC

Signal sequence (1-20), variable region (21-129), constant region (130-234)

FIG.8

SEQ ID NO: 21: Nucleotide sequence of hTINA1-L3

atggtgctgcagacccaggtgttcatctccctgctgctgtggatctccggcgcgtacggcgacatcgtgatg
acccagagccctagcagcctgagcgccagcgtgggcgacagagtgaccatcacatgcaaggccagccaggac
gtgtccacagccgtggcctggtatcagcagaagcccggcaagcagcccaagctgctgatctacagcgccagc
taccggtacaccggcgtgcccagcagattttctggcagcggctccggcaccgacttcaccctgacaatcagc
agcctgcagcccgaggacttcgccgtgtactactgccagcagcactacatcacccccctgacctttggccag
ggcaccaagctggaaatcaagcgtacggtggccgcccctccgtgttcatcttcccccctccgacgagcag
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aaggtggacaacgccctgcagtccgggaactcccaggagagcgtgaccgagcaggacagcaaggacagcacc
tacagcctgagcagcaccctgaccctgagcaaagccgactacgagaagcacaaggtgtacgcctgcgaggtg
acccaccagggcctgagctccccgtcaccaagagcttcaacaggggggagtgt

Signal sequence (1-60), variable region (61-387), constant region (388-702)

SEQ ID NO: 22: Amino acid sequence of hTINA1-L3

MVLQTQVFISLLLWISGAYGDIVMTQSPSSLSASVGDRVTITCKASQDVSTAVAWYQQKPGKQPKLLIYSAS
YRYTGVPSRFSGSGSGTDFTLTISSLQPEDFAVYYCQQHYITPLTFGQGTKLEIKRTVAAPSVFIFPPSDEQ
LKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEV
THQGLSSPVTKSFNRGEC

Signal sequence (1-20), variable region (21-129), constant region (130-234)

FIG.9

SEQ ID NO: 23: Amino acid sequence of CDRH1 of TINA1 antibody

TAGMQ

SEQ ID NO: 24: Amino acid sequence of CDRH2 of TINA1 antibody

WINTHSGVPKYAEDFKG

SEQ ID NO: 25: Amino acid sequence of CDRH3 of TINA1 antibody

SGFGSSYWYFDV

SEQ ID NO: 26: Amino acid sequence of CDRL1 of TINA1 antibody

KASQDVSTAVA

SEQ ID NO: 27: Amino acid sequence of CDRL2 of TINA1 antibody

SASYRYT

SEQ ID NO: 28: Amino acid sequence of CDRL3 of TINA1 antibody

QQHYITPLT

FIG.10

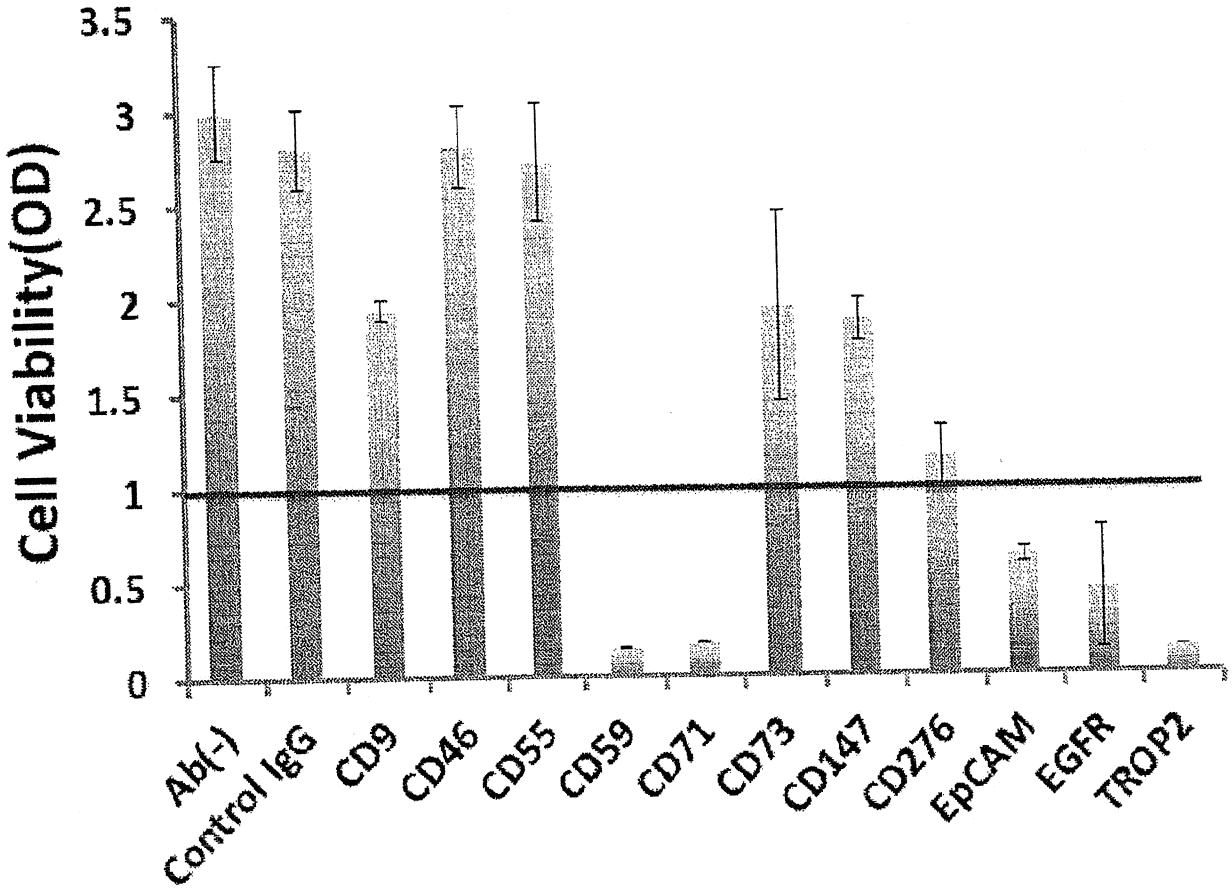

Cell Viability(OD)
3.5
3
2.5
2
1.5
1
0.5
0
Ab(-)
Control IgG
CD9
CD46
CD55
CD59
CD71
CD73
CD147
CD276
EpCAM
EGFR
TROP2

FIG. 11

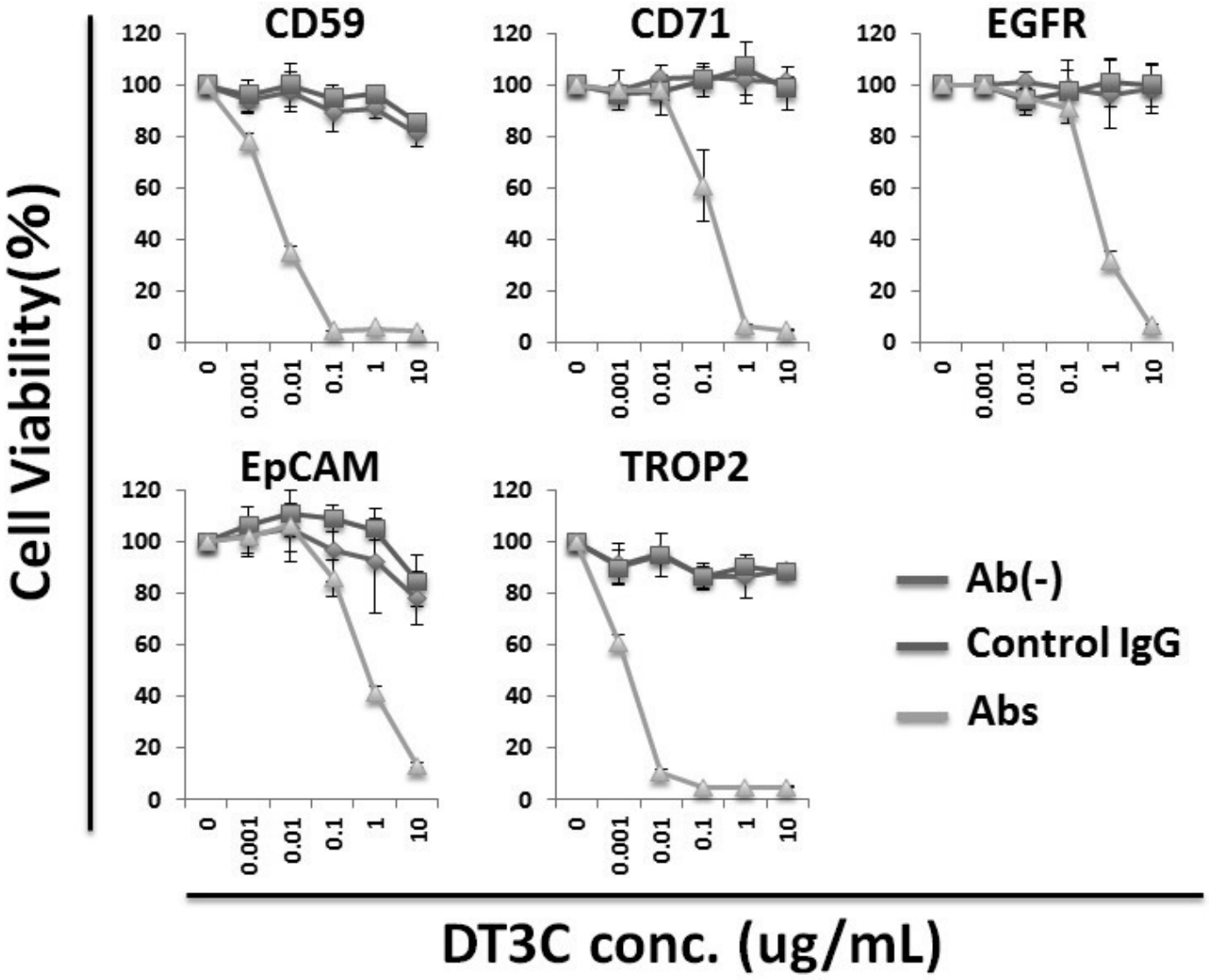

CD59
CD71
EGFR
EpCAM
TROP2
Cell Viability(%)
120
100
80
60
40
20
0
0
0.001
0.01
0.1
1
10
Ab(-)
Control IgG
Abs
DT3C conc. (ug/mL)

FIG. 12

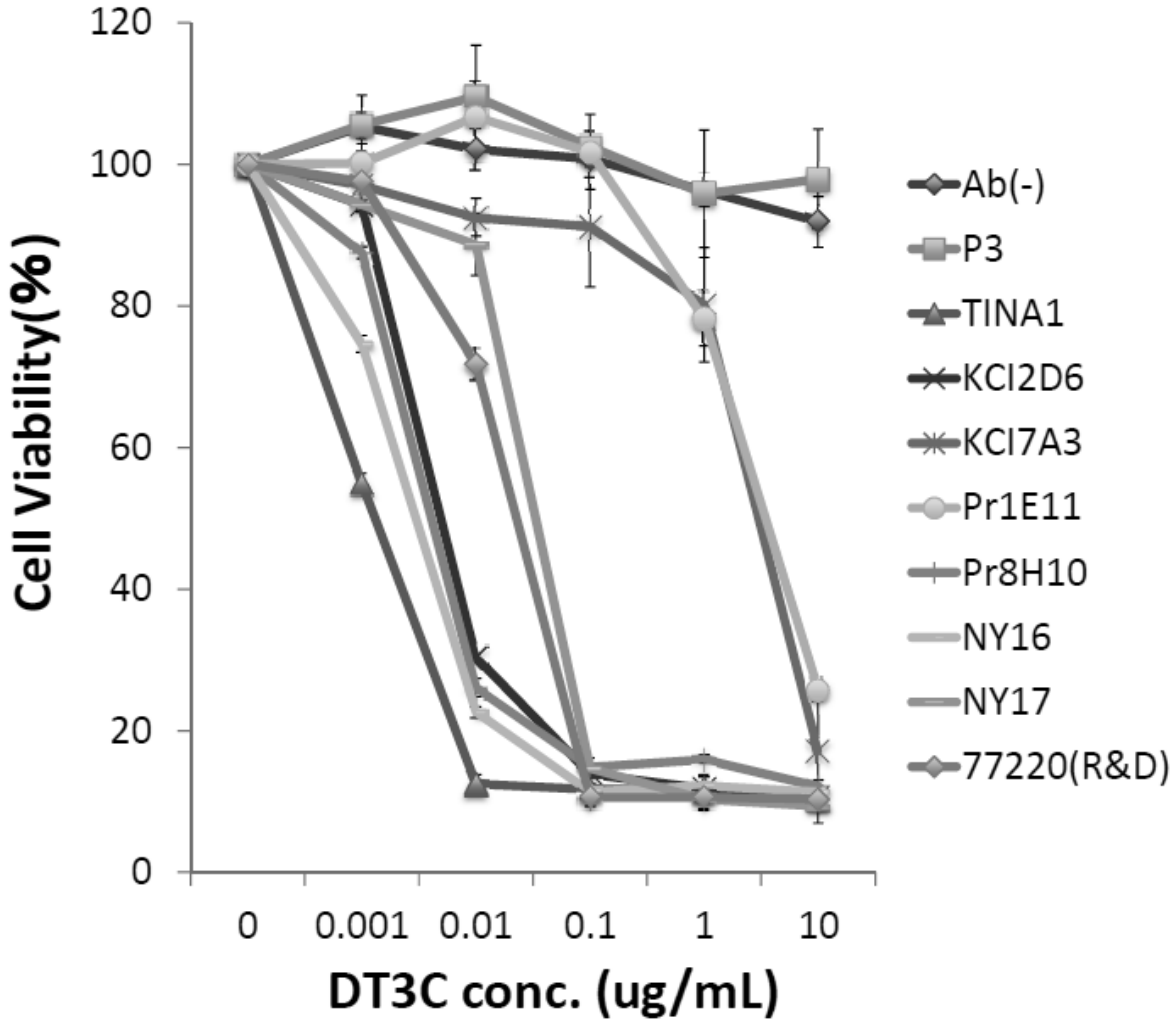

120
100
80
60
40
20
0
Cell Viability(%)
0
0.001
0.01
0.1
1
10
DT3C conc. (ug/mL)
Ab(-)
P3
TINA1
KCI2D6
KCI7A3
Pr1E11
Pr8H10
NY16
NY17
77220(R&D)

FIG. 13

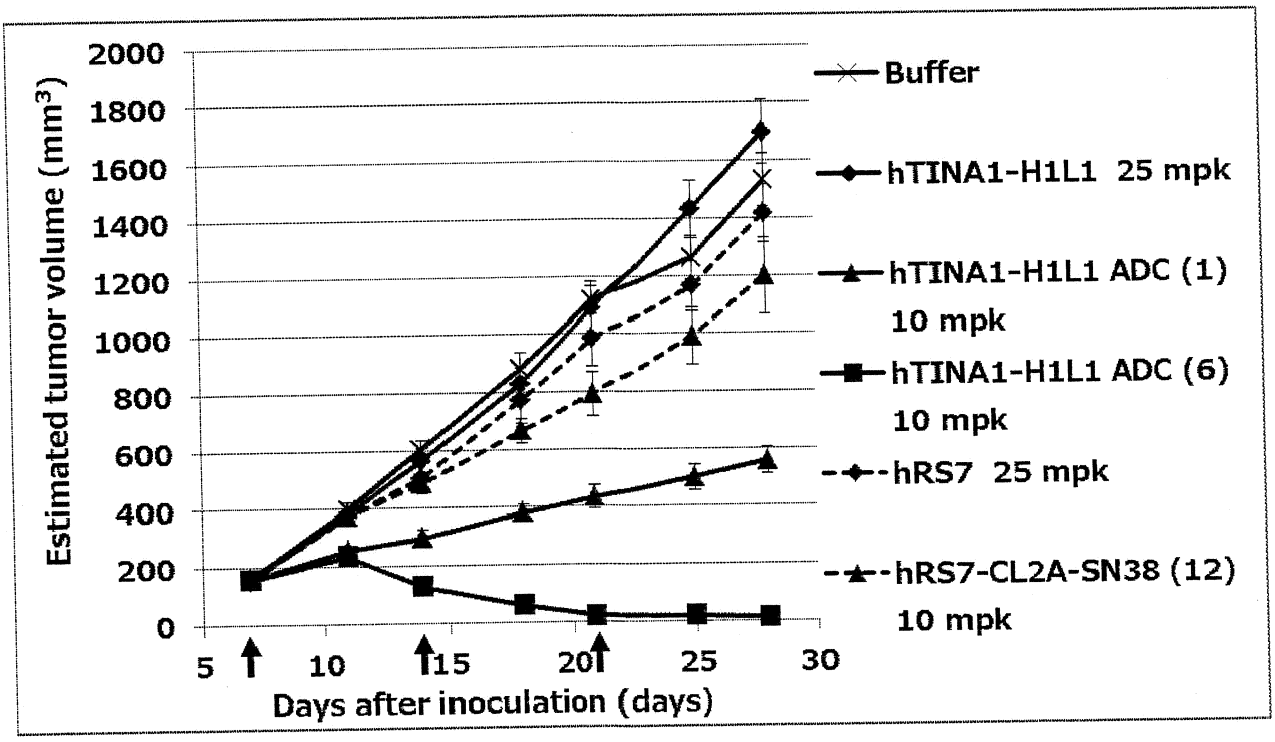

Estimated tumor volume (mm³)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
5
10
15
20
25
30
Days after inoculation (days)
Buffer
hTINA1-H1L1 25 mpk
hTINA1-H1L1 ADC (1) 10 mpk
hTINA1-H1L1 ADC (6) 10 mpk
hRS7 25 mpk
hRS7-CL2A-SN38 (12) 10 mpk

FIG.14

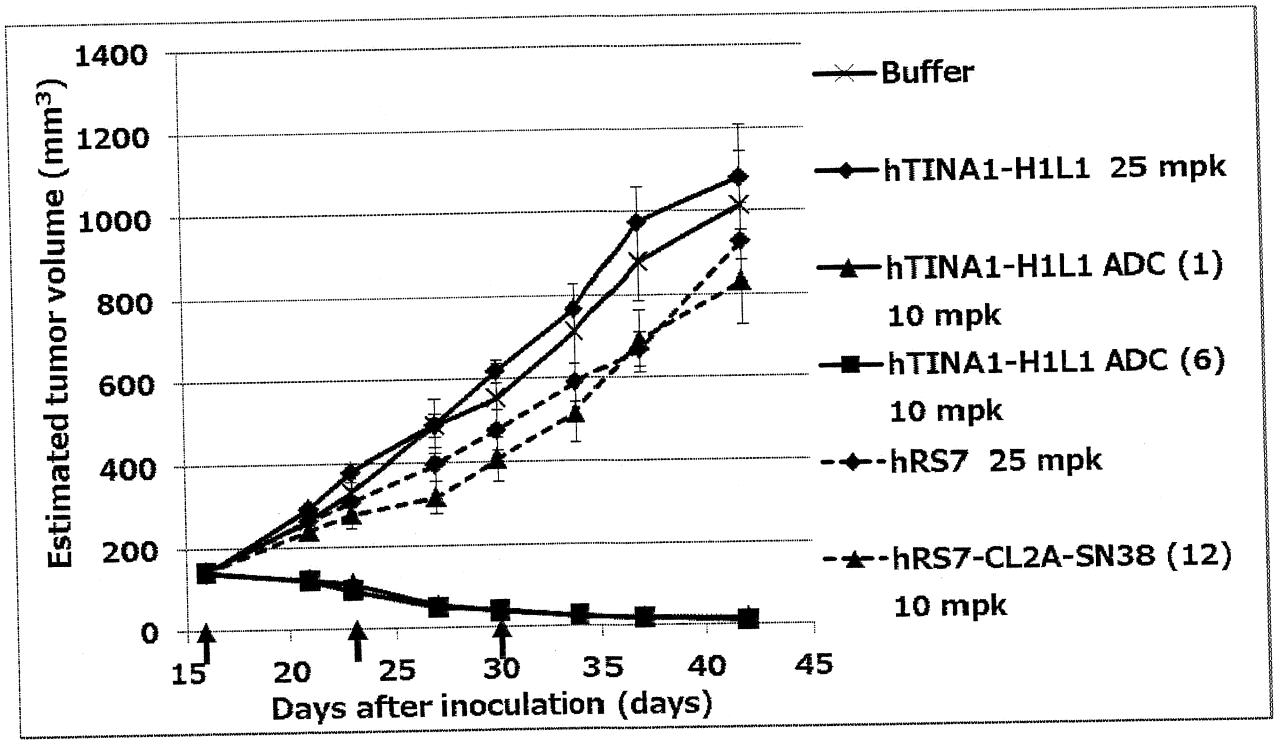

Estimated tumor volume (mm3)
1400
1200
1000
800
600
400
200
0
15
20
25
30
35
40
45
Days after inoculation (days)
Buffer
hTINA1-H1L1 25 mpk
hTINA1-H1L1 ADC (1) 10 mpk
hTINA1-H1L1 ADC (6) 10 mpk
hRS7 25 mpk
hRS7-CL2A-SN38 (12) 10 mpk

FIG.15

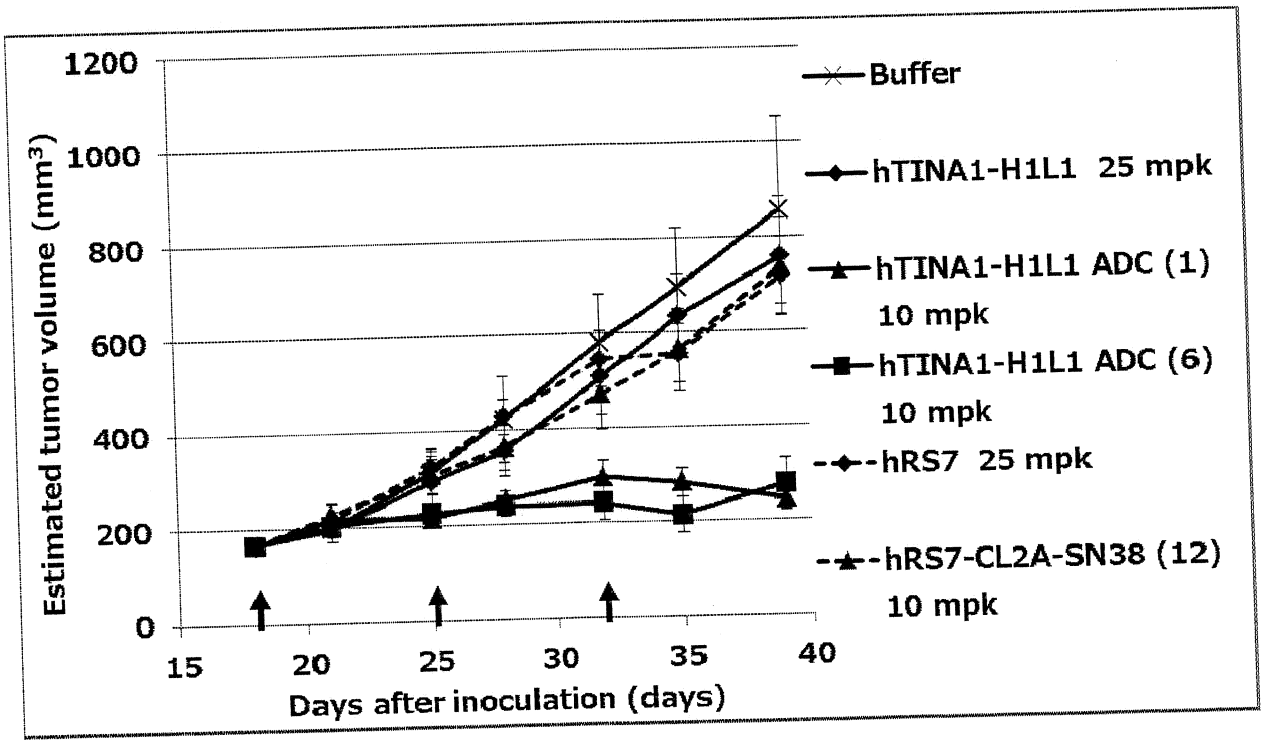

1200
1000
800
600
400
200
0
Estimated tumor volume (mm3)
15
20
25
30
35
40
Days after inoculation (days)
Buffer
hTINA1-H1L1 25 mpk
hTINA1-H1L1 ADC (1)
10 mpk
hTINA1-H1L1 ADC (6)
10 mpk
hRS7 25 mpk
hRS7-CL2A-SN38 (12)
10 mpk

FIG.16

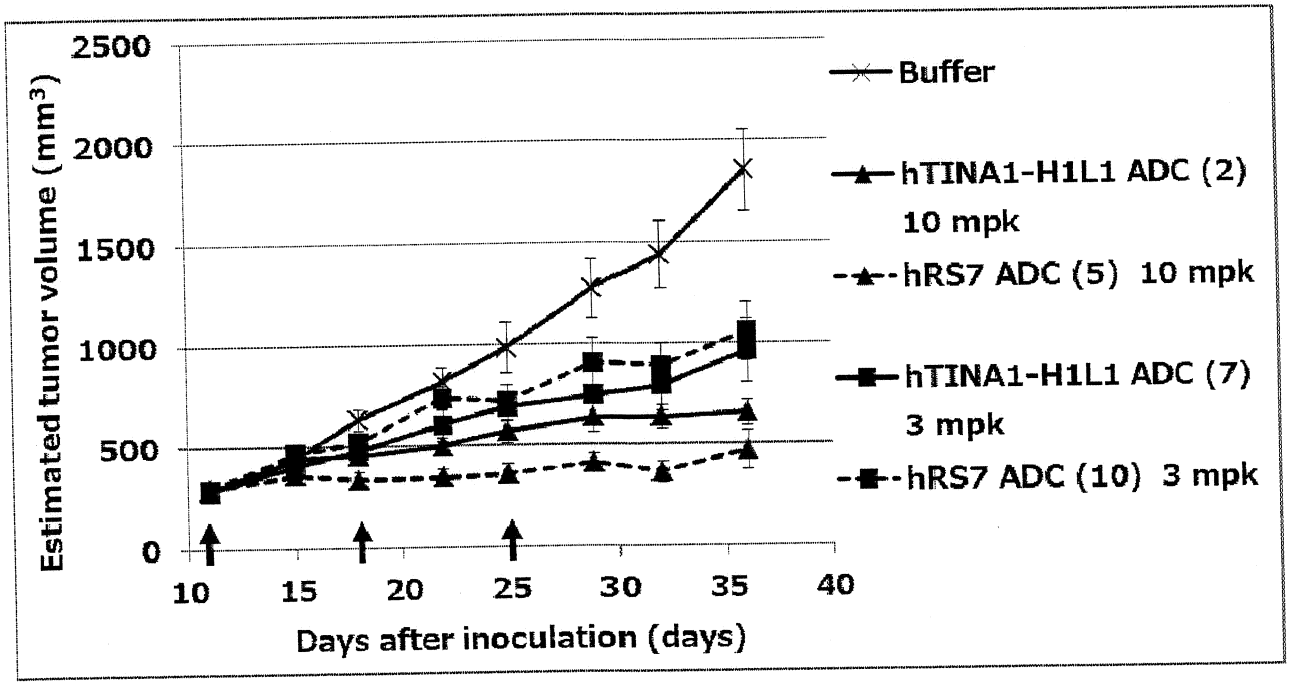

2500
2000
1500
1000
500
0
Estimated tumor volume (mm³)
10
15
20
25
30
35
40
Days after inoculation (days)
Buffer
hTINA1-H1L1 ADC (2) 10 mpk
hRS7 ADC (5) 10 mpk
hTINA1-H1L1 ADC (7) 3 mpk
hRS7 ADC (10) 3 mpk

FIG.17

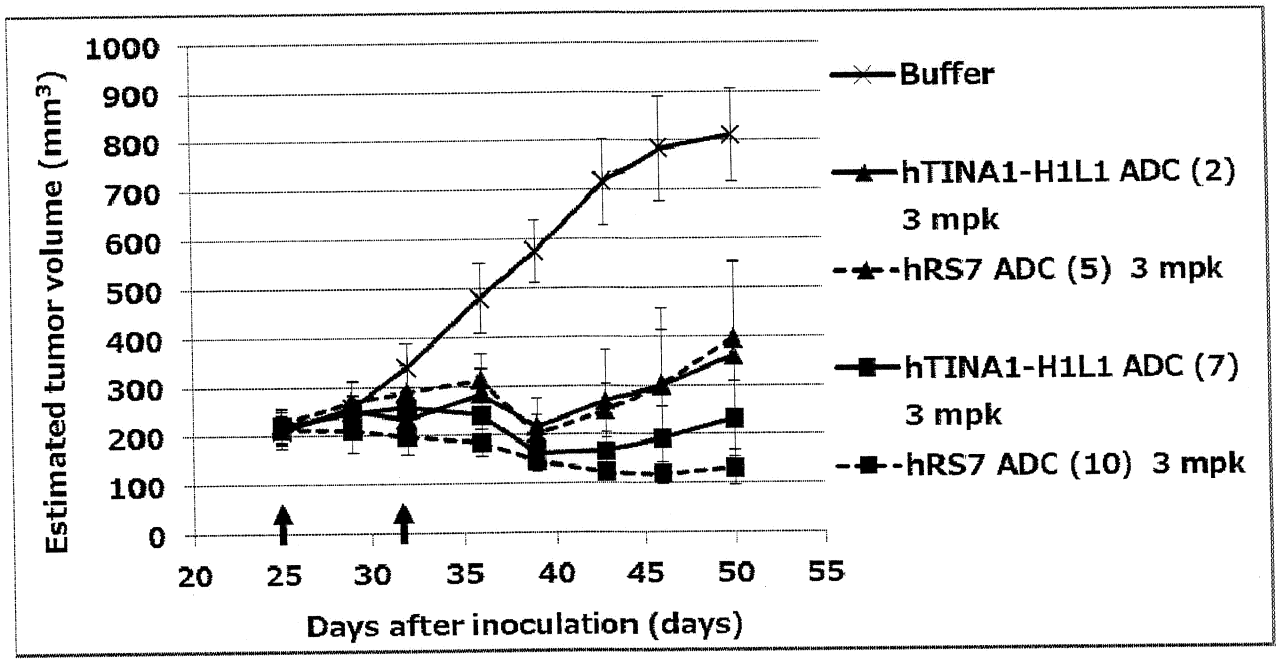

Estimated tumor volume (mm³)
1000
900
800
700
600
500
400
300
200
100
0
20
25
30
35
40
45
50
55
Days after inoculation (days)
Buffer
hTINA1-H1L1 ADC (2) 3 mpk
hRS7 ADC (5) 3 mpk
hTINA1-H1L1 ADC (7) 3 mpk
hRS7 ADC (10) 3 mpk

FIG.18

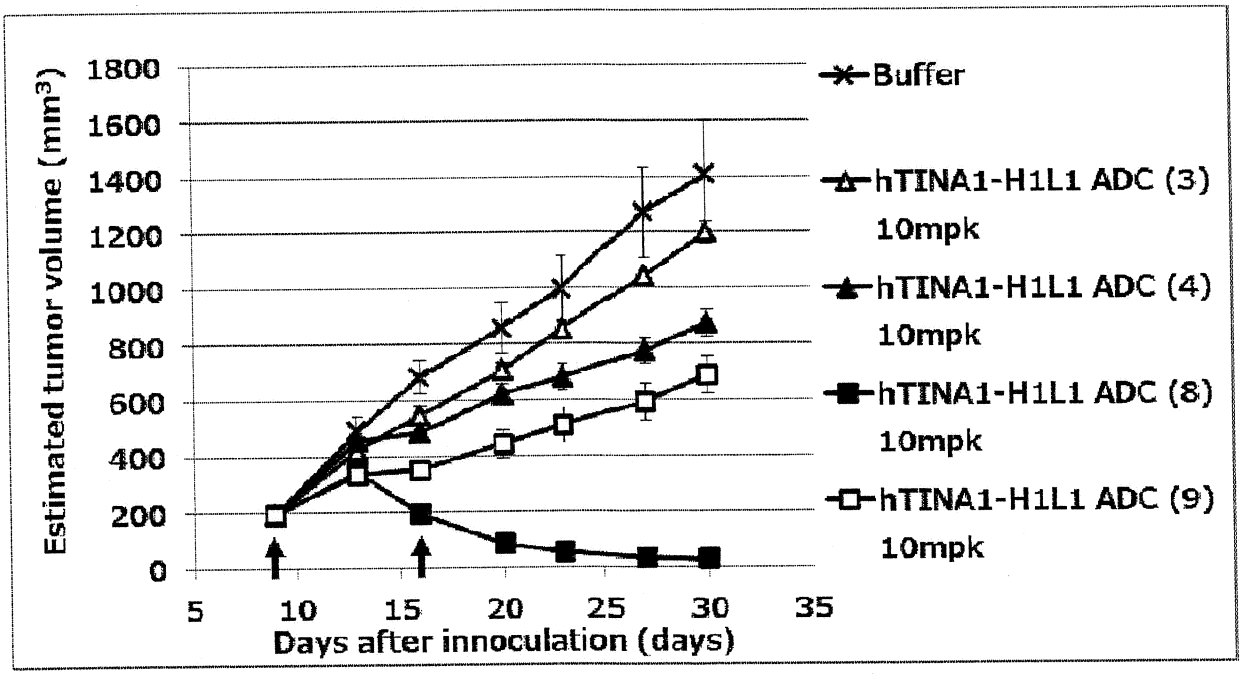

Estimated tumor volume (mm³)
1800
1600
1400
1200
1000
800
600
400
200
0
5
10
15
20
25
30
35
Days after innoculation (days)
Buffer
hTINA1-H1L1 ADC (3) 10mpk
hTINA1-H1L1 ADC (4) 10mpk
hTINA1-H1L1 ADC (8) 10mpk
hTINA1-H1L1 ADC (9) 10mpk

FIG.19

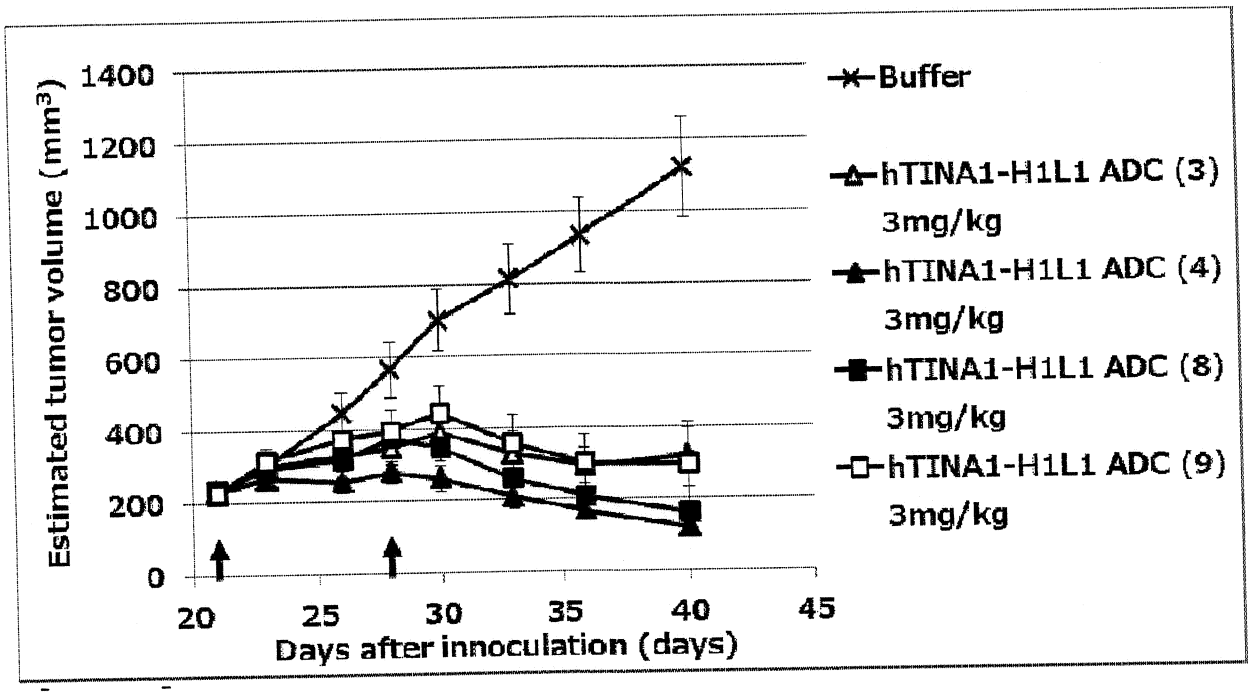

Estimated tumor volume (mm³)
1400
1200
1000
800
600
400
200
0
20
25
30
35
40
45
Days after innoculation (days)
Buffer
hTINA1-H1L1 ADC (3) 3mg/kg
hTINA1-H1L1 ADC (4) 3mg/kg
hTINA1-H1L1 ADC (8) 3mg/kg
hTINA1-H1L1 ADC (9) 3mg/kg

FIG.20

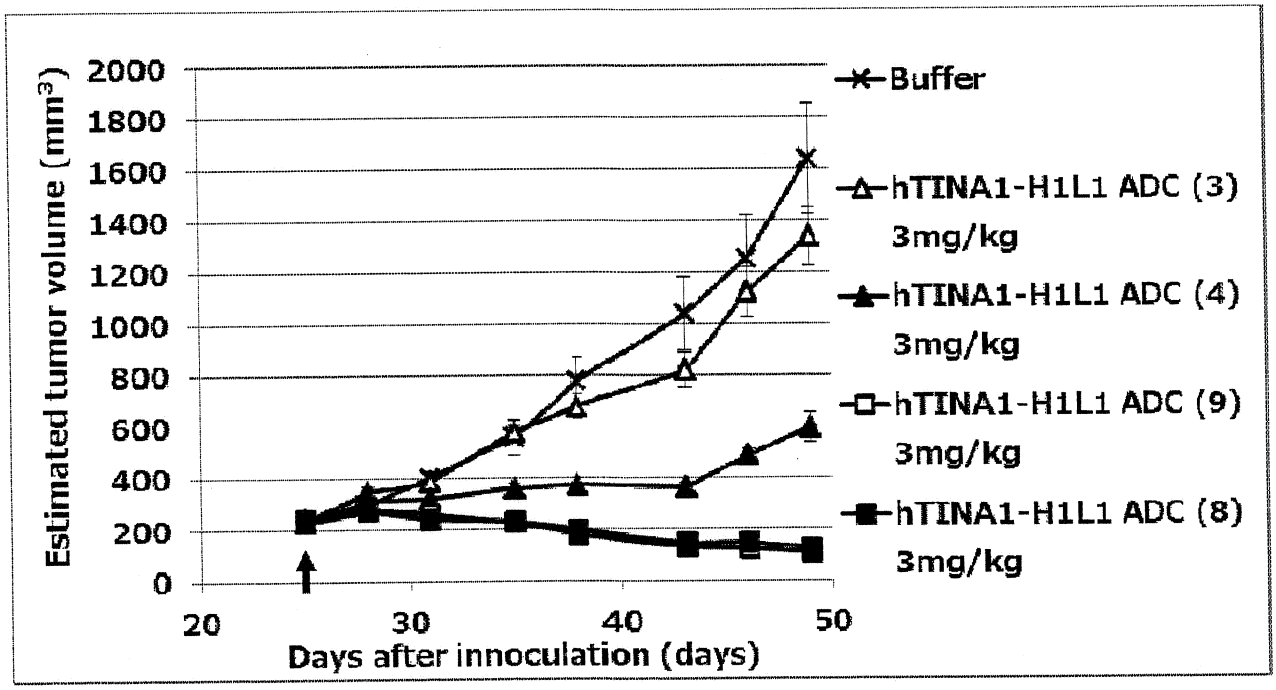

Estimated tumor volume (mm3)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
30
40
50
Days after innoculation (days)
Buffer
hTINA1-H1L1 ADC (3) 3mg/kg
hTINA1-H1L1 ADC (4) 3mg/kg
hTINA1-H1L1 ADC (9) 3mg/kg
hTINA1-H1L1 ADC (8) 3mg/kg

FIG.21

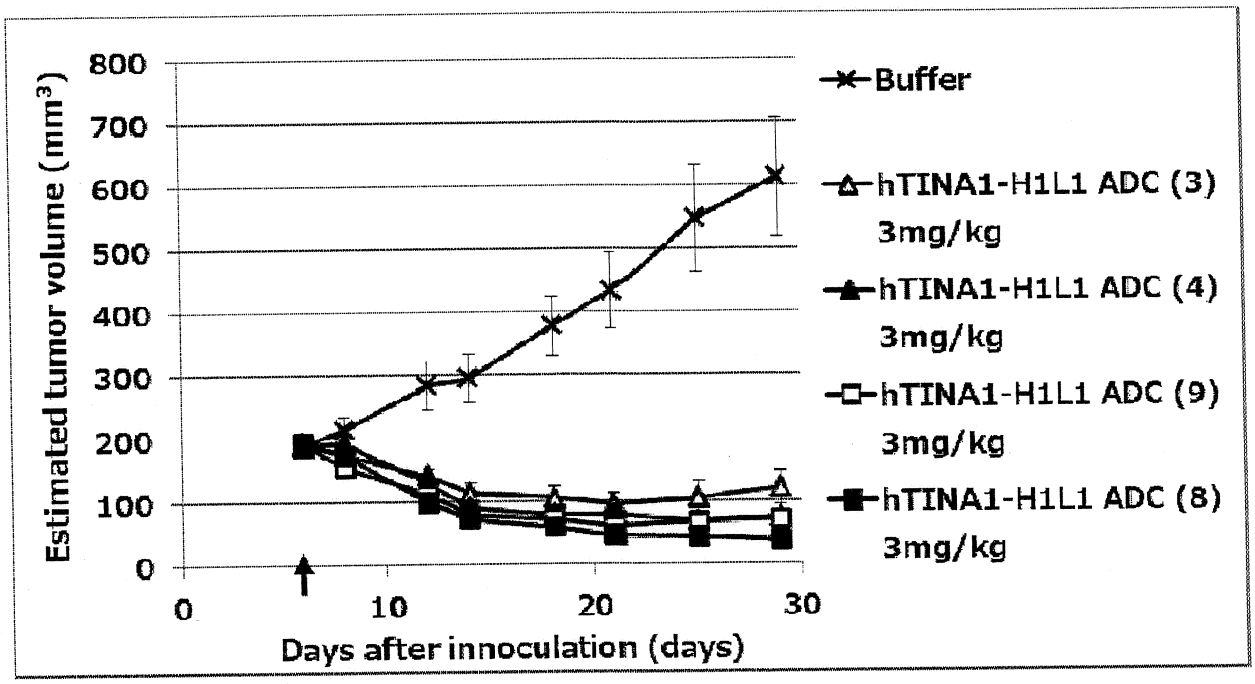

Estimated tumor volume (mm³)
800
700
600
500
400
300
200
100
0
0
10
20
30
Days after innoculation (days)
Buffer
hTINA1-H1L1 ADC (3) 3mg/kg
hTINA1-H1L1 ADC (4) 3mg/kg
hTINA1-H1L1 ADC (9) 3mg/kg
hTINA1-H1L1 ADC (8) 3mg/kg

FIG.22

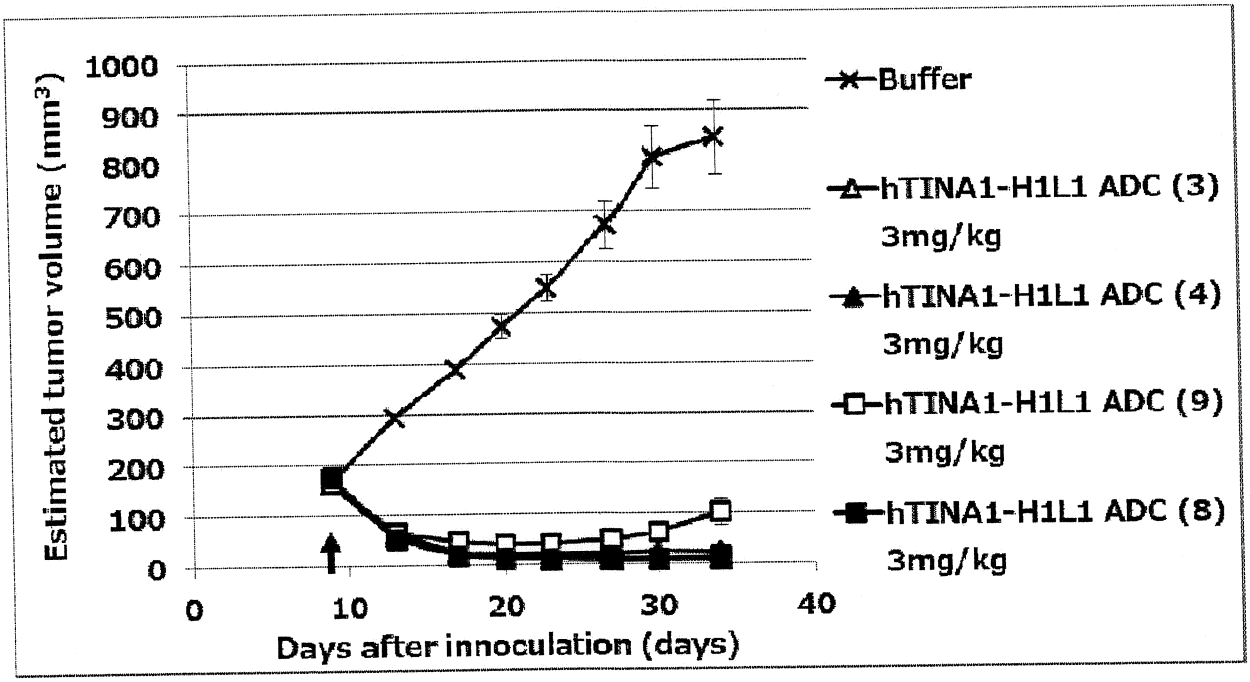

Estimated tumor volume (mm³)
1000
900
800
700
600
500
400
300
200
100
0
0
10
20
30
40
Days after innoculation (days)
Buffer
hTINA1-H1L1 ADC (3) 3mg/kg
hTINA1-H1L1 ADC (4) 3mg/kg
hTINA1-H1L1 ADC (9) 3mg/kg
hTINA1-H1L1 ADC (8) 3mg/kg

FIG.23

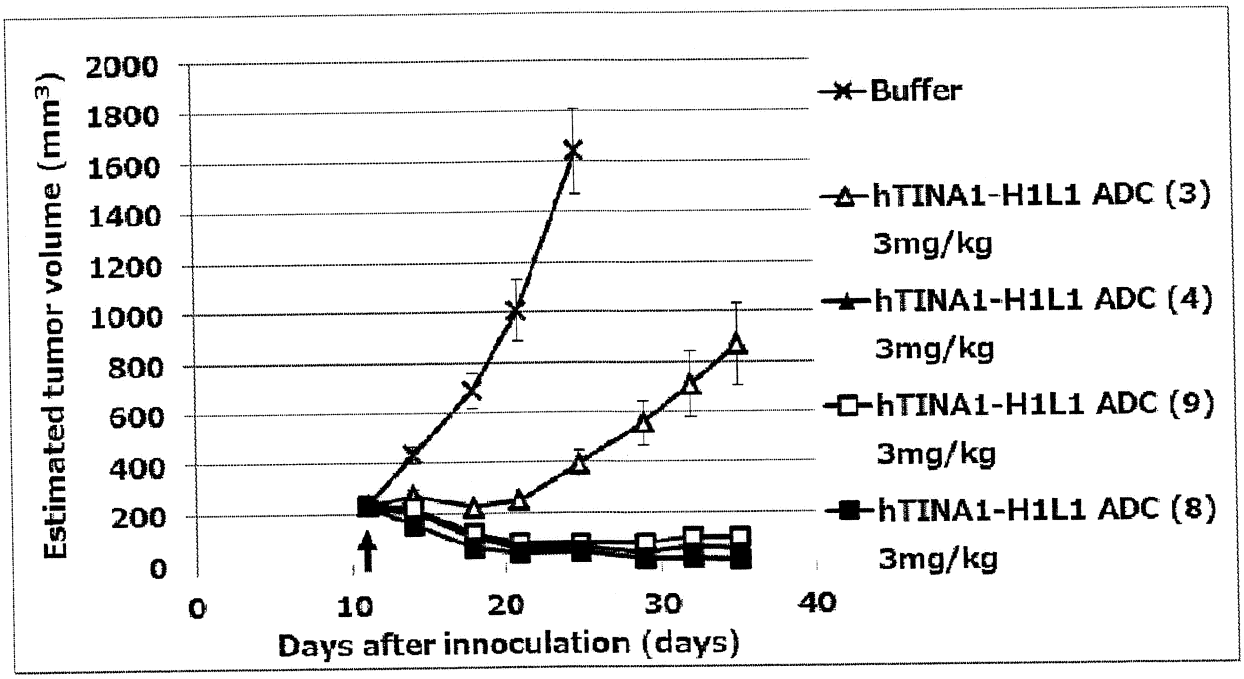

Estimated tumor volume (mm3)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10
20
30
40
Days after innoculation (days)
Buffer
hTINA1-H1L1 ADC (3) 3mg/kg
hTINA1-H1L1 ADC (4) 3mg/kg
hTINA1-H1L1 ADC (9) 3mg/kg
hTINA1-H1L1 ADC (8) 3mg/kg

FIG.24

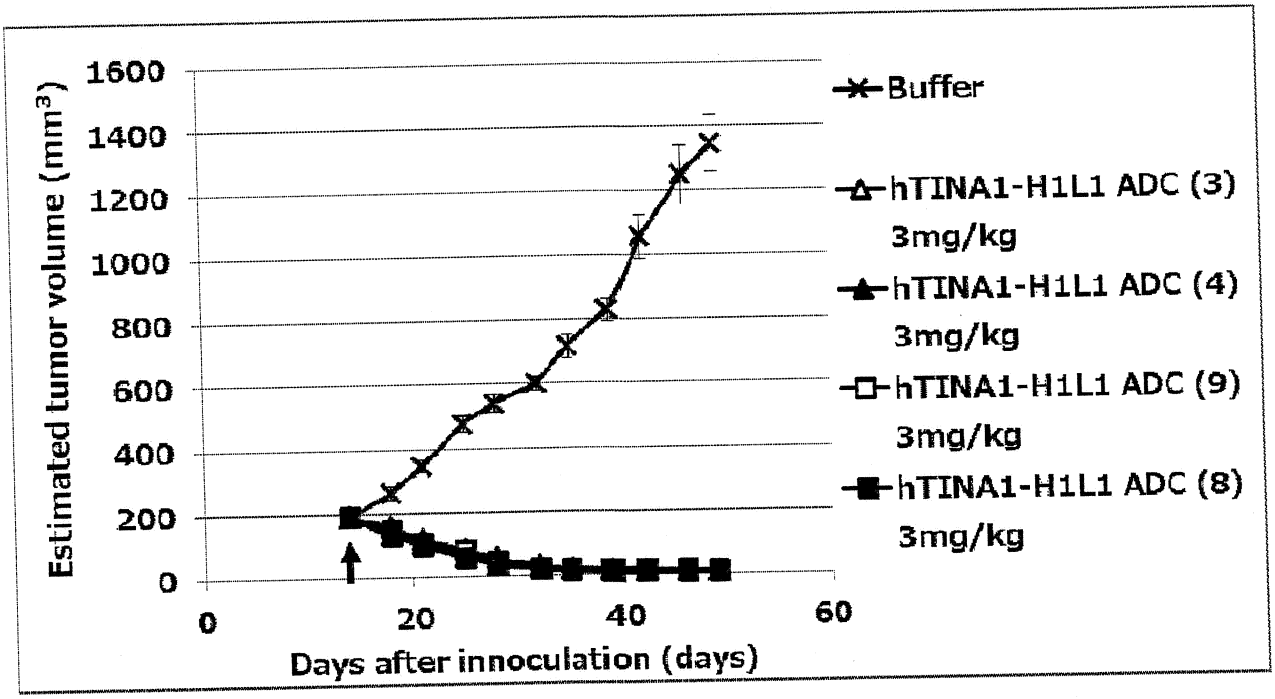

Estimated tumor volume (mm³)
1600
1400
1200
1000
800
600
400
200
0
0
20
40
60
Days after innoculation (days)
Buffer
hTINA1-H1L1 ADC (3) 3mg/kg
hTINA1-H1L1 ADC (4) 3mg/kg
hTINA1-H1L1 ADC (9) 3mg/kg
hTINA1-H1L1 ADC (8) 3mg/kg

FIG.25

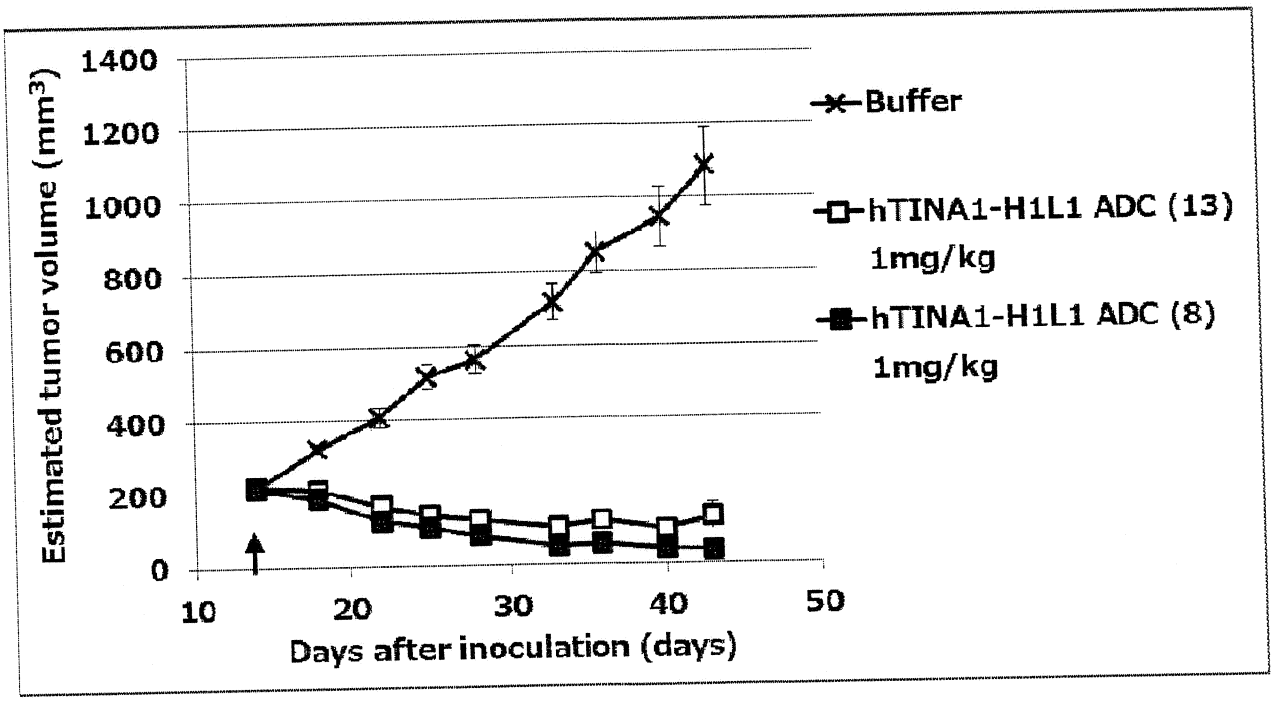

Estimated tumor volume (mm3)
1400
1200
1000
800
600
400
200
0
10
20
30
40
50
Days after inoculation (days)
Buffer
hTINA1-H1L1 ADC (13) 1mg/kg
hTINA1-H1L1 ADC (8) 1mg/kg

FIG.26

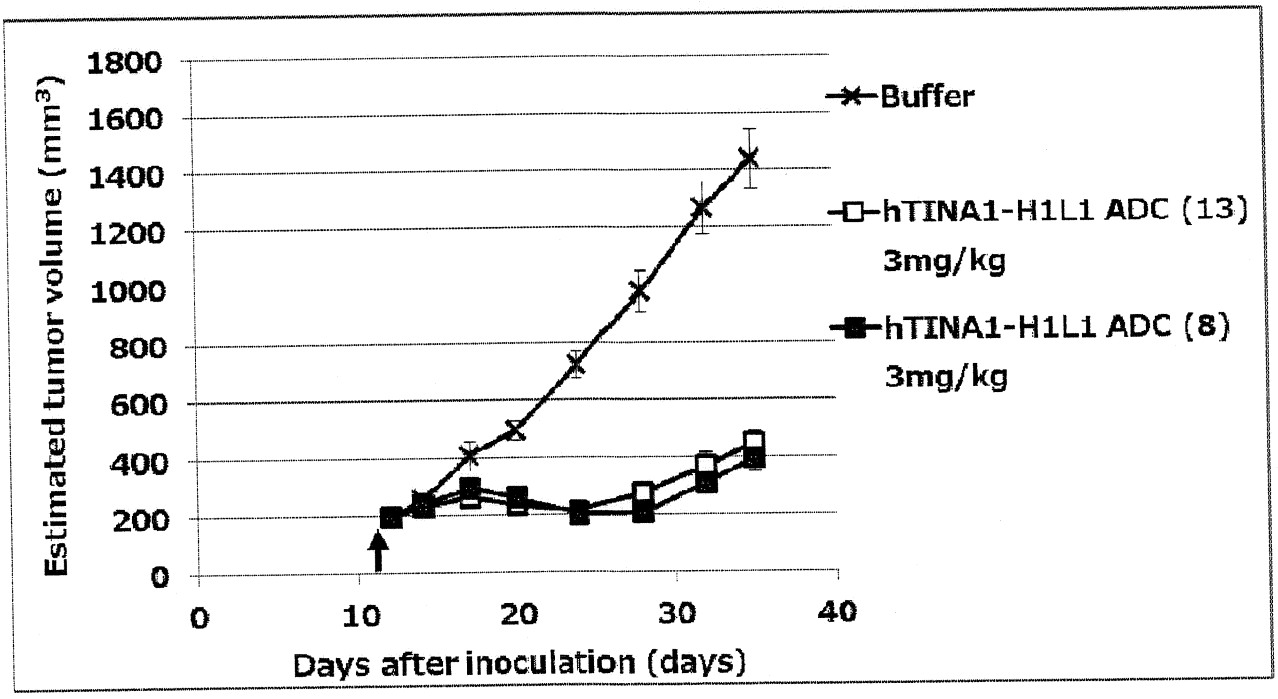
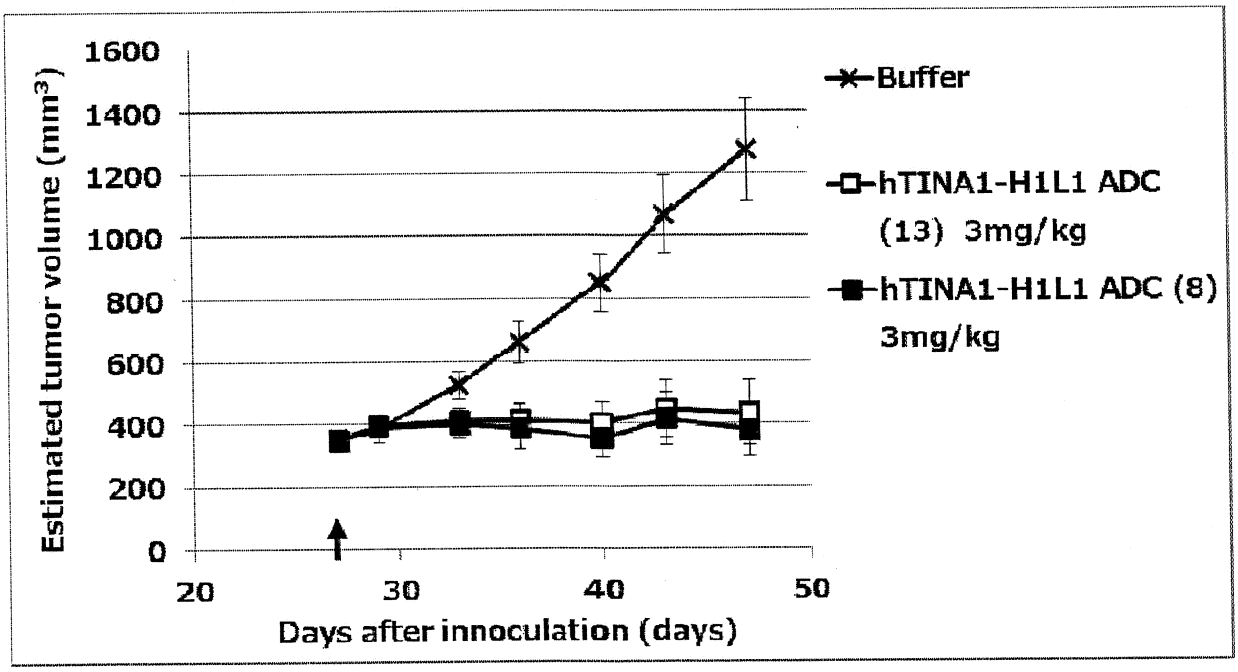

Estimated tumor volume (mm³)
1800
1600
1400
1200
1000
800
600
400
200
0
0
10
20
30
40
Days after inoculation (days)
Buffer
hTINA1-H1L1 ADC (13) 3mg/kg
hTINA1-H1L1 ADC (8) 3mg/kg

FIG. 27


Estimated tumor volume (mm³)
1600
1400
1200
1000
800
600
400
200
0
20
30
40
50
Days after innoculation (days)
Buffer
hTINA1-H1L1 ADC (13) 3mg/kg
hTINA1-H1L1 ADC (8) 3mg/kg