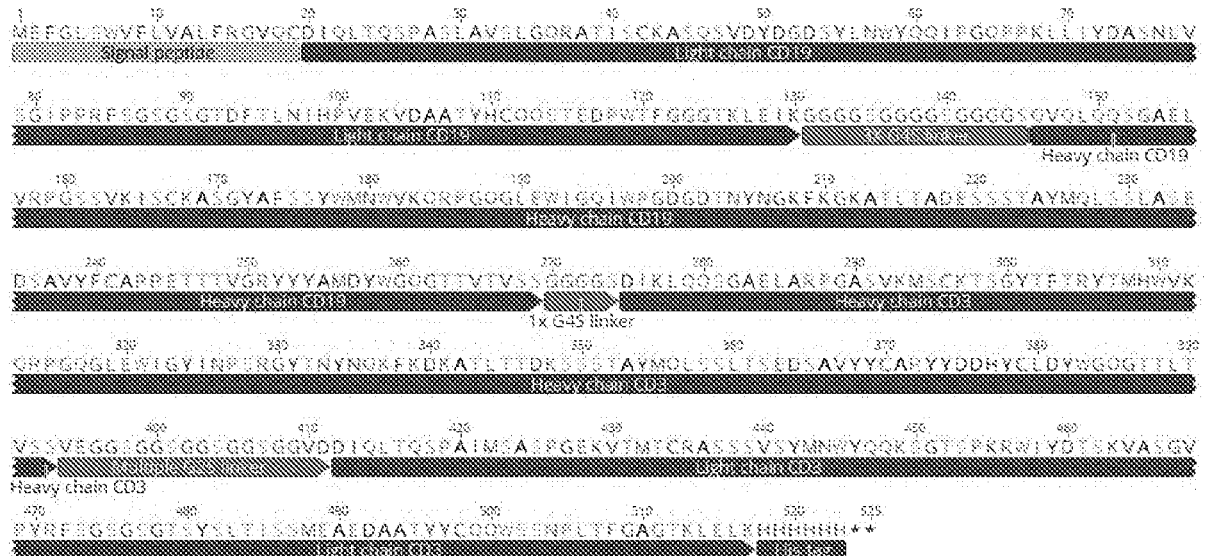


FIG. 1

CD19-CD3 BiTE (SEQ ID NO: 44)



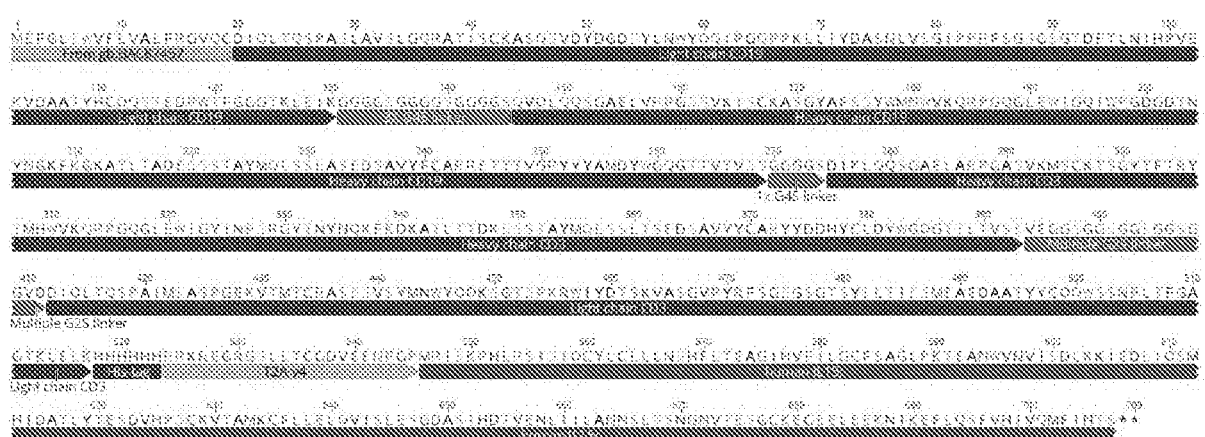
Signal peptide 1: SEQ ID NO: 2
Light chain CD19: SEQ ID NO: 16
Heavy chain CD19: SEQ ID NO: 18

Light chain CD3: SEQ ID NO: 20
Heavy chain CD3: SEQ ID NO: 22
3X G4S linker: SEQ ID NO: 8

1X G4S linker: SEQ ID NO: 6
G2S linker: SEQ ID NO: 10
His-tag: SEQ ID NO: 12

FIG. 2

CD19-CD3-IL15 BiTE (SEQ ID NO: 53)



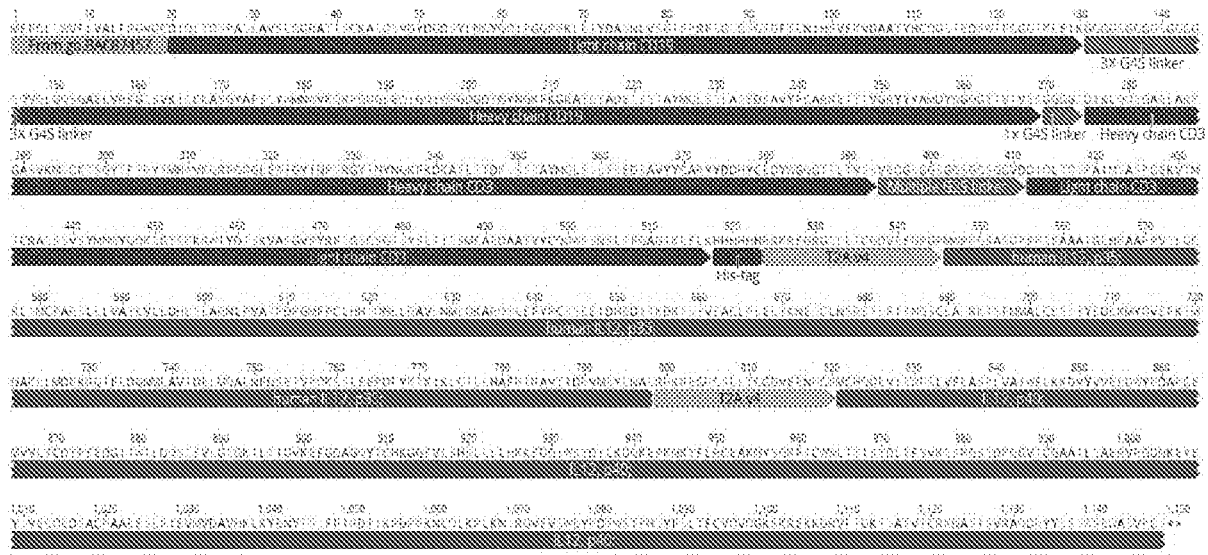
Signal peptide 1: SEQ ID NO: 2
Light chain CD19: SEQ ID NO: 16
Heavy chain CD19: SEQ ID NO: 18

Light chain CD3: SEQ ID NO: 20
Heavy chain CD3: SEQ ID NO: 22
Human IL15: SEQ ID NO: 24

3X G4S linker: SEQ ID NO: 8
1X G4S linker: SEQ ID NO: 6
G2S linker: SEQ ID NO: 10
T2A v4: SEQ ID NO: 14

FIG. 3

CD19-CD3-IL12 BiTE (SEQ ID NO: 54)



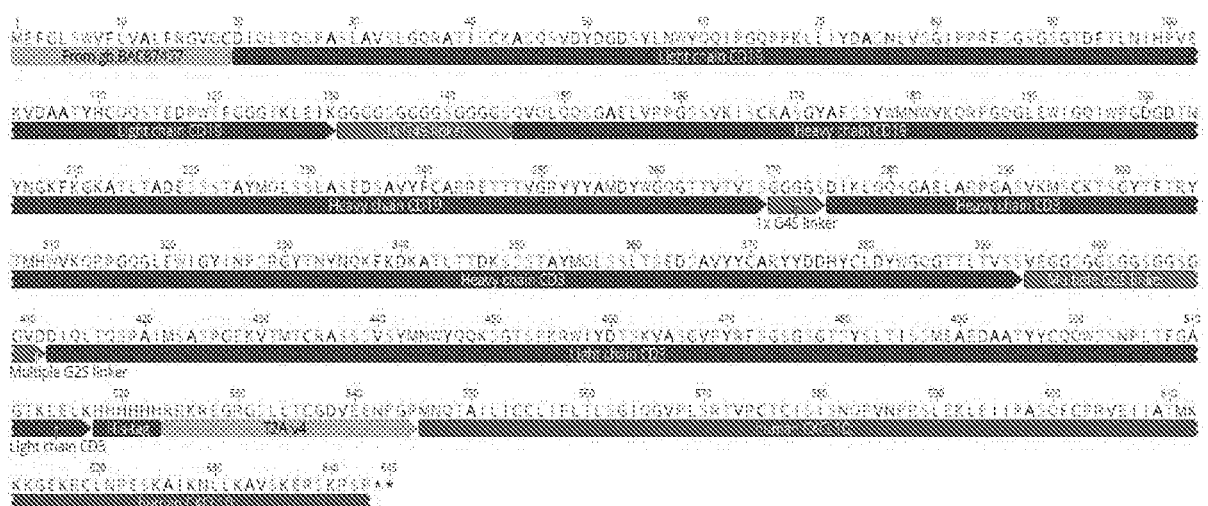
Signal peptide 1: SEQ ID NO: 2
Light chain CD19: SEQ ID NO: 16
Heavy chain CD19: SEQ ID NO: 18
His-tag: SEQ ID NO: 12

Light chain CD3: SEQ ID NO: 20
Heavy chain CD3: SEQ ID NO: 22
Human IL12 p35: SEQ ID NO: 28
Human IL12 p40: SEQ ID NO: 26

3X G4S linker: SEQ ID NO: 8
1X G4S linker: SEQ ID NO: 6
G2S linker: SEQ ID NO: 10
T2A v4: SEQ ID NO: 14

FIG. 4

CD19-CD3-CXCL10 BiTE (SEQ ID NO: 55)



Signal peptide 1: SEQ ID NO: 2
Light chain CD19: SEQ ID NO: 16
Heavy chain CD19: SEQ ID NO: 18

Light chain CD3: SEQ ID NO: 20
Heavy chain CD3: SEQ ID NO: 22
Human CXCL10: SEQ ID NO: 30
His-tag: SEQ ID NO: 12

3X G4S linker: SEQ ID NO: 8
1X G4S linker: SEQ ID NO: 6
G2S linker: SEQ ID NO: 10
T2A v4: SEQ ID NO: 14

FIG. 5

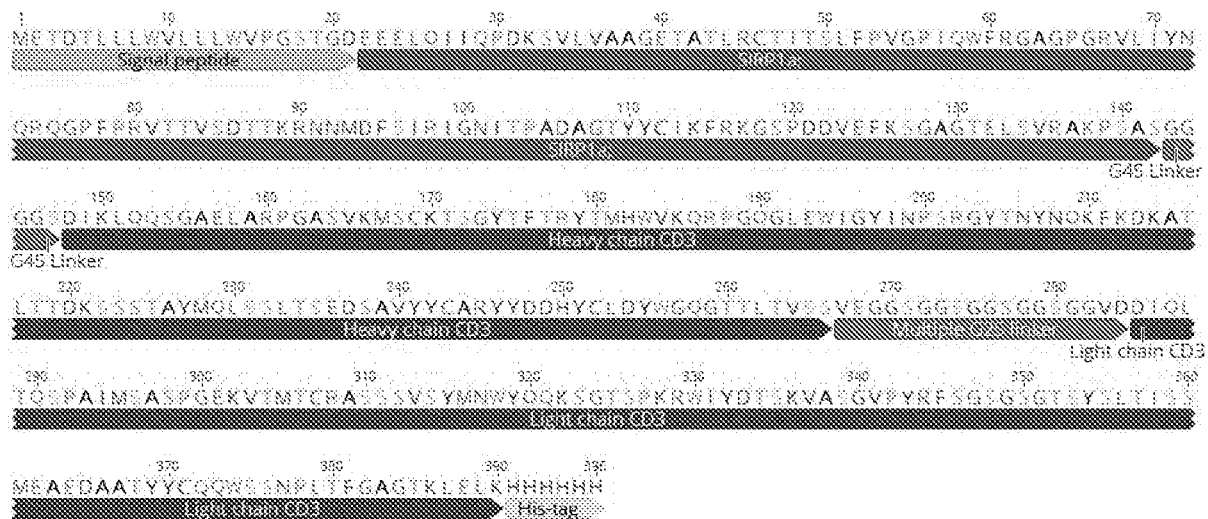
SIRP1 α -CD3 (SL) BiTE (SEQ ID NO: 46)

Signal peptide 2: SEQ ID NO: 4
SIRP1 α : SEQ ID NO: 32

Light chain CD3: SEQ ID NO: 20
Heavy chain CD3: SEQ ID NO: 22

G2S linker: SEQ ID NO: 10
His-tag: SEQ ID NO: 12

FIG. 6

SIRP1 α -CD3 (LL) BiTE (SEQ ID NO: 48)

Signal peptide 2: SEQ ID NO: 4
SIRP1 α : SEQ ID NO: 32

Light chain CD3: SEQ ID NO: 20
Heavy chain CD3: SEQ ID NO: 22

1X G4S linker: SEQ ID NO: 6
G2S linker: SEQ ID NO: 10
His-tag: SEQ ID NO: 12

FIG. 7

SIRP1 α -CD3-IL15 (SL) BiTE (SEQ ID NO: 56)

Signal peptide 2: SEQ ID NO: 4
 SIRP1 α : SEQ ID NO: 32
 Heavy chain CD3: SEQ ID NO: 22

Light chain CD3: SEQ ID NO: 20
 Multiple G2S linker: SEQ ID NO: 10
 His-tag: SEQ ID NO: 12

T2A v4: SEQ ID NO: 14
 Human IL15: SEQ ID NO: 24

FIG. 8

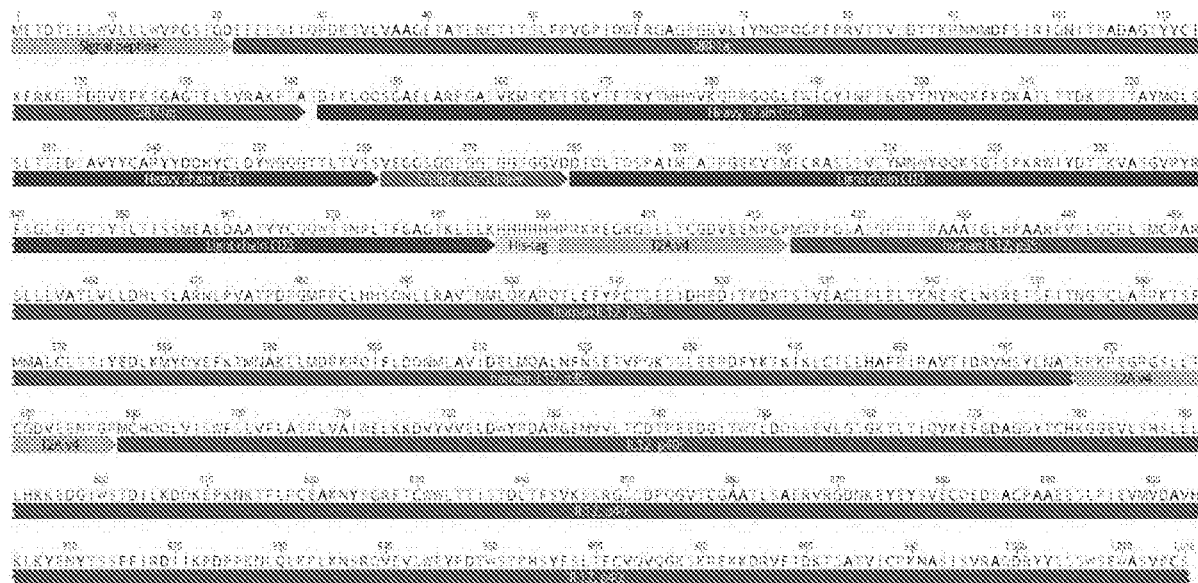
SIRP1 α -CD3-IL15 (LL) BiTE (SEQ ID NO: 57)

Signal peptide 2: SEQ ID NO: 4
 SIRP1 α : SEQ ID NO: 32
 G4S Linker: SEQ ID NO: 6

Light chain CD3: SEQ ID NO: 20
 Heavy chain CD3: SEQ ID NO: 22
 Multiple G2S linker: SEQ ID NO: 10

His-tag: SEQ ID NO: 12
 Human IL15: SEQ ID NO: 24
 T2A v4: SEQ ID NO: 14

FIG. 9

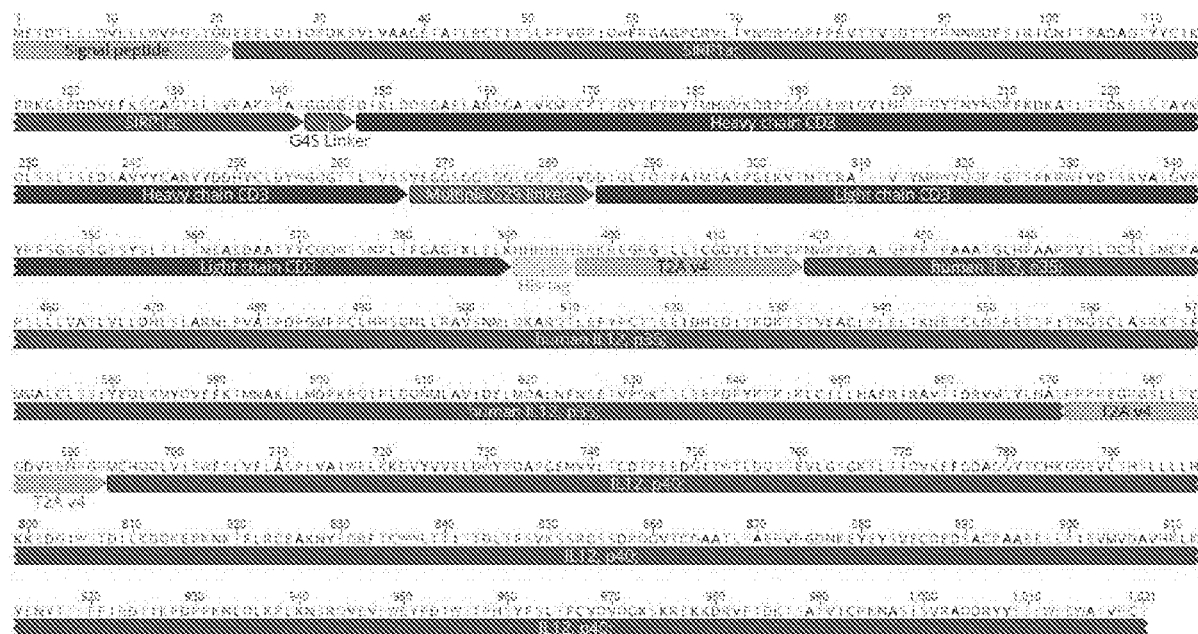
SIRP1 α -CD3-IL12 (SL) BiTE (SEQ ID NO: 58)

Signal peptide 2: SEQ ID NO: 4
SIRP1 α : SEQ ID NO: 32
Heavy chain CD3: SEQ ID NO: 22

Light chain CD3: SEQ ID NO: 20
Multiple G2S linker: SEQ ID NO: 10
His-tag: SEQ ID NO: 12

T2A v4: SEQ ID NO: 14
Human IL12, p35: SEQ ID NO: 28
IL12, p40: SEQ ID NO: 26

FIG. 10

SIRP1 α -CD3-IL12 (LL) BiTE (SEQ ID NO: 59)

Signal peptide 2: SEQ ID NO: 4
SIRP1 α : SEQ ID NO: 32
G4S Linker: SEQ ID NO: 6

Light chain CD3: SEQ ID NO: 20
Heavy chain CD3: SEQ ID NO: 22
Multiple G2S Linker: SEQ ID NO: 10

His-tag: SEQ ID NO: 12
Human IL12, p35: SEQ ID NO: 28
IL12, p40: SEQ ID NO: 26
T2A v4: SEQ ID NO: 14

FIG. 11

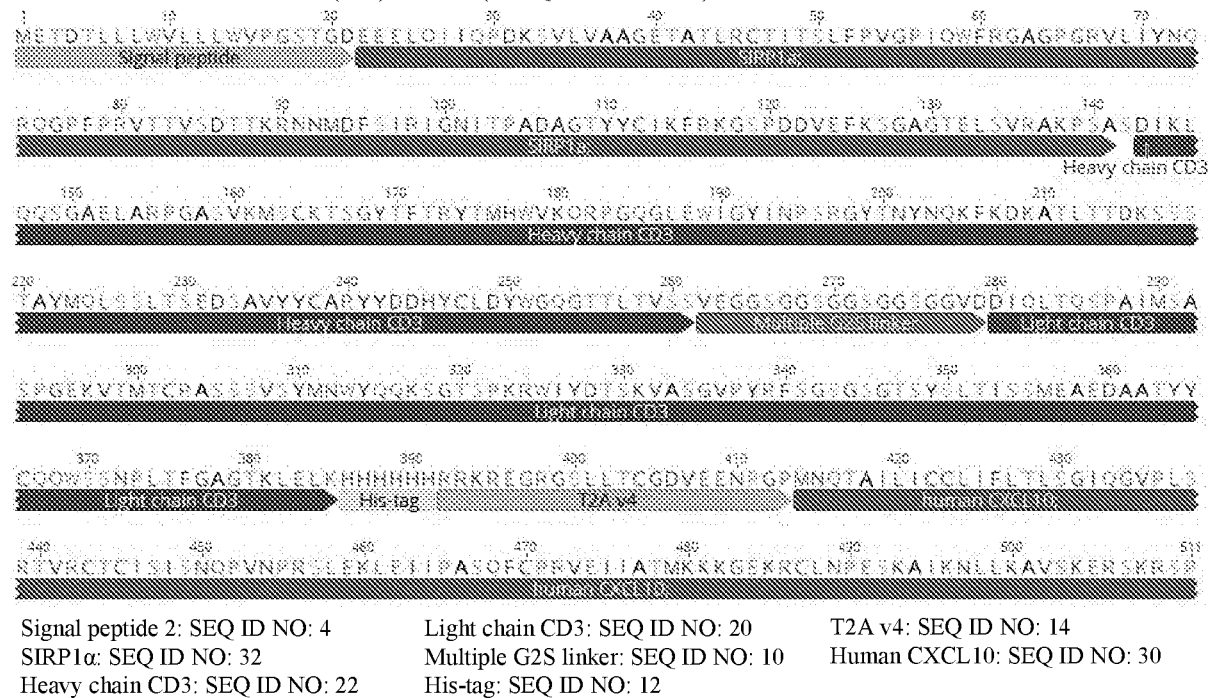
SIRP1 α -CD3-CXCL10 (SL) BiTE (SEQ ID NO: 60)

FIG. 12

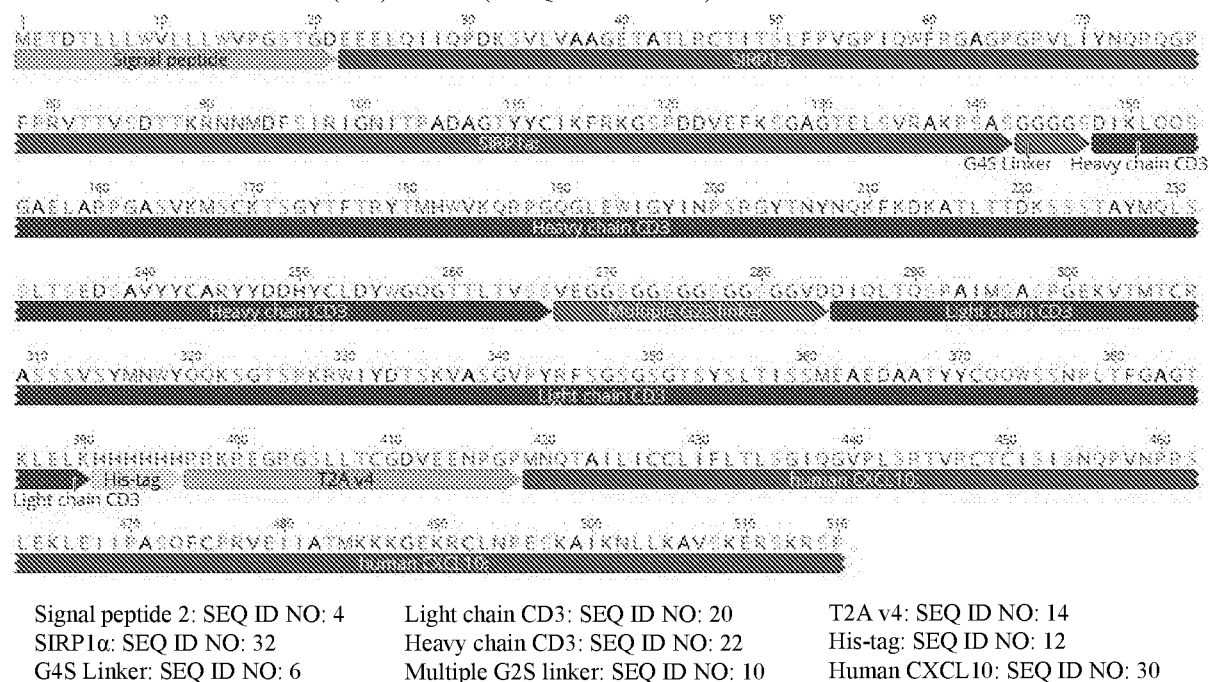
SIRP1 α -CD3-CXCL10 (LL) BiTE (SEQ ID NO: 61)

FIG. 15

PDL1-CD3-IL12 BiTE (SEQ ID NO: 63)

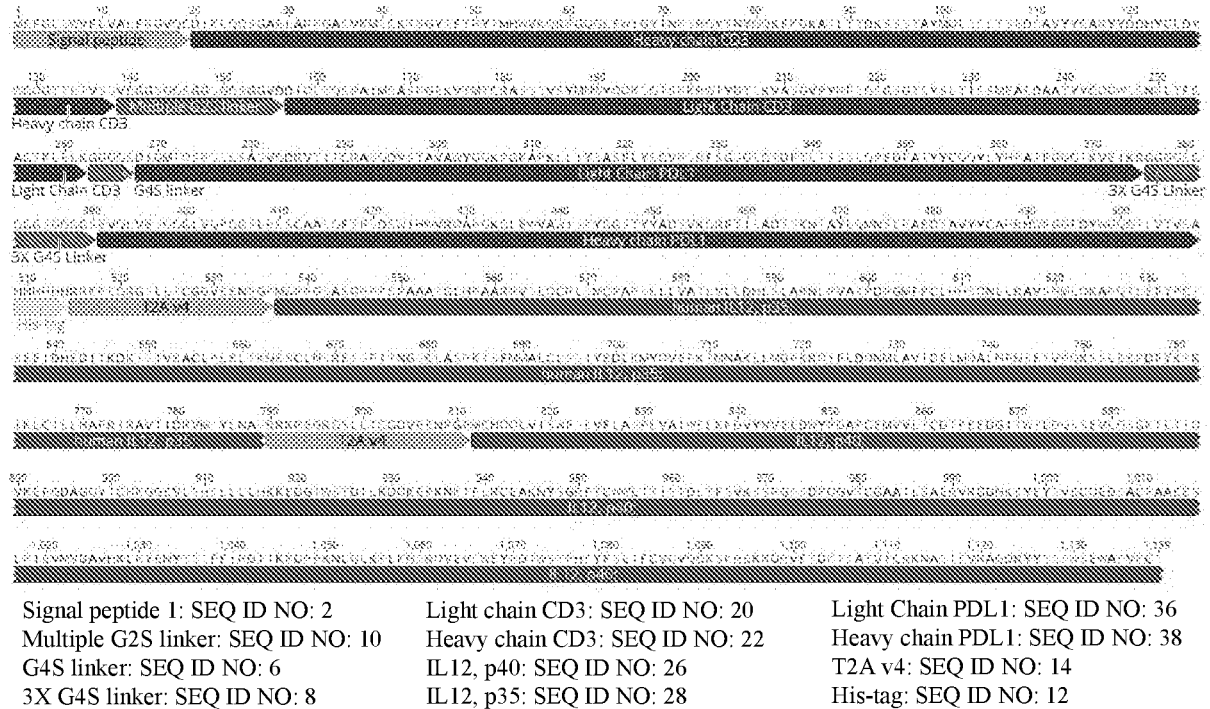
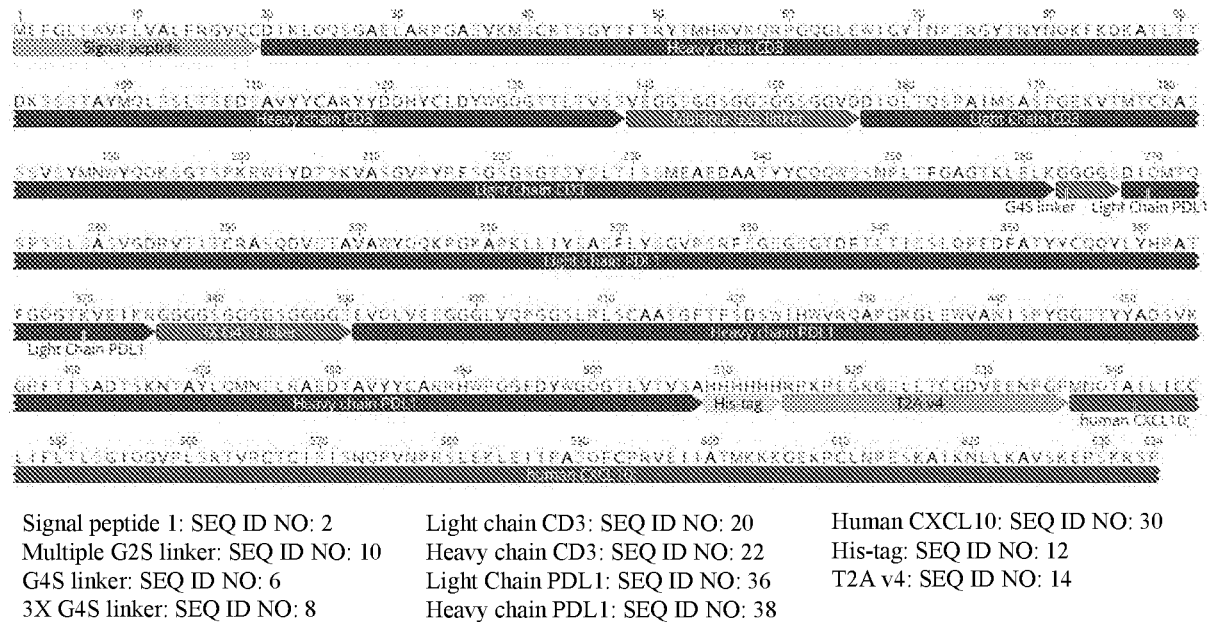


FIG. 16

PDL1-CD3-CXCL10 BiTE (SEQ ID NO: 64)



PDL1-CD3-Fc BiTE (SEQ ID NO: 52)

Signal peptide 1: SEQ ID NO: 2
Multiple G2S linker: SEQ ID NO: 10
G4S linker: SEQ ID NO: 6

Light chain CD3: SEQ ID NO: 20
Heavy chain CD3: SEQ ID NO: 22
PD-L1 Light Chain Fv: SEQ ID NO: 36
PD-L1 Heavy chain Fv: SEQ ID NO: 38

3X G4S linker: SEQ ID NO: 8
Heavy chain Fc: SEQ ID NO: 40
His-tag: SEQ ID NO: 12

FIG. 18

FIG. 18A

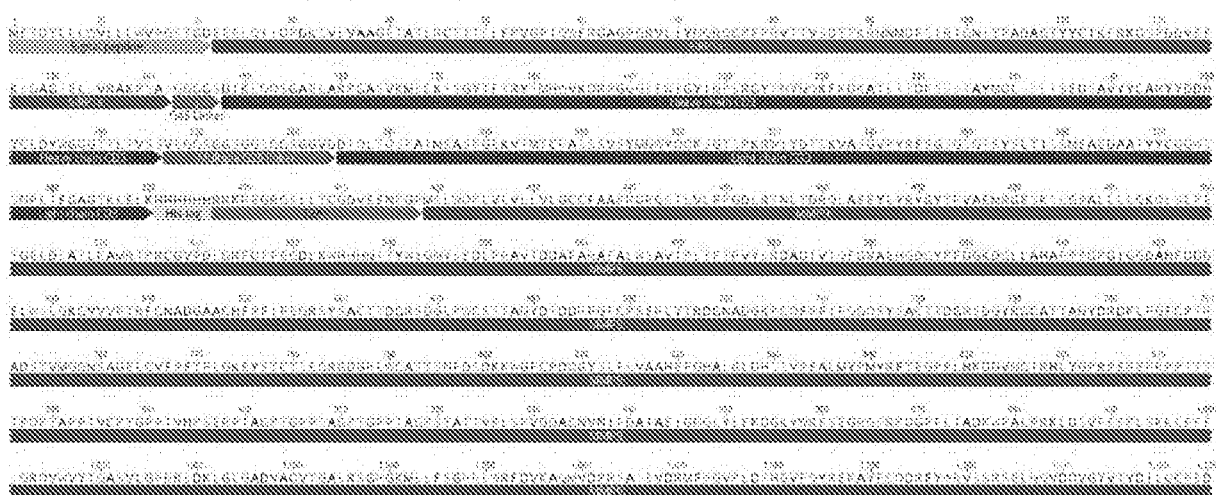
SIRP1 α -CD3-MMP9 (SL) BiTE (SEQ ID NO: 65)

Signal peptide 2: SEQ ID NO: 4
SIRP1 α : SEQ ID NO: 32
Heavy chain CD3: SEQ ID NO: 22

Light chain CD3: SEQ ID NO: 20
Multiple G2S linker: SEQ ID NO: 10
His-tag: SEQ ID NO: 12

T2A v4: SEQ ID NO: 14
Human MMP9: SEQ ID NO: 34

FIG. 18B

SIRP1 α -CD3-MMP9 (LL) BiTE (SEQ ID NO: 66)

Signal peptide 2: SEQ ID NO: 4
SIRP1 α : SEQ ID NO: 32
G4S Linker: SEQ ID NO: 6

Light chain CD3: SEQ ID NO: 20
Heavy chain CD3: SEQ ID NO: 22
Multiple G2S linker: SEQ ID NO: 10

His-tag: SEQ ID NO: 12
T2A v4: SEQ ID NO: 14
Human MMP9: SEQ ID NO: 34

FIG. 19

FIG. 19A

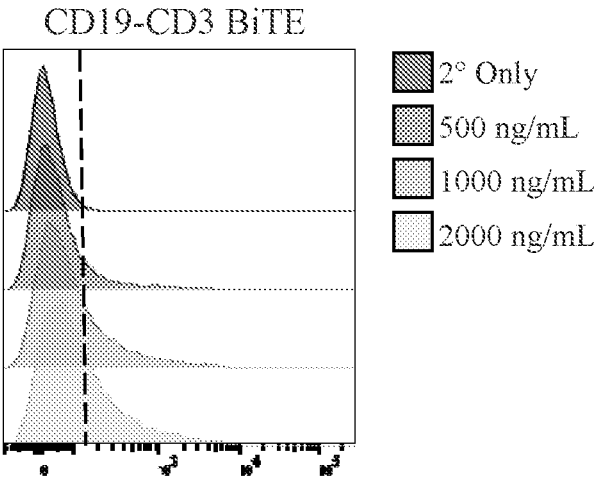


FIG. 19B

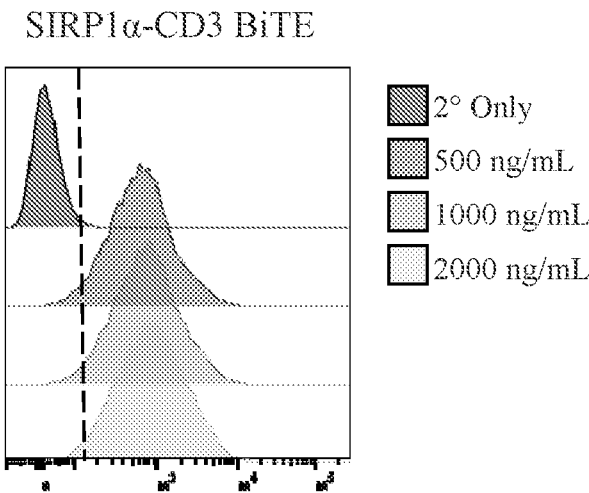


FIG. 19C

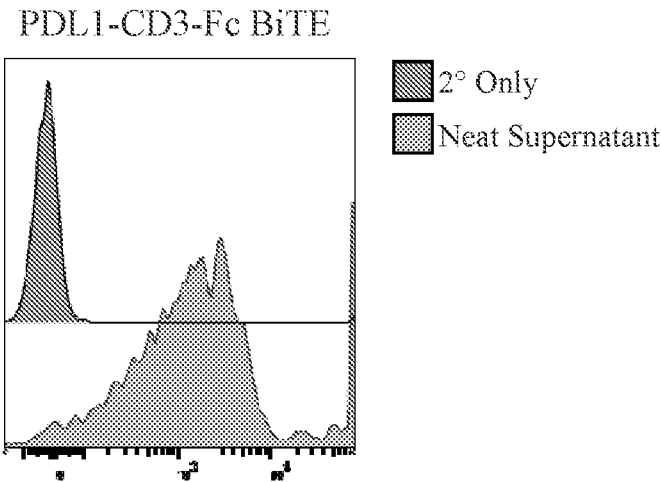


FIG. 20

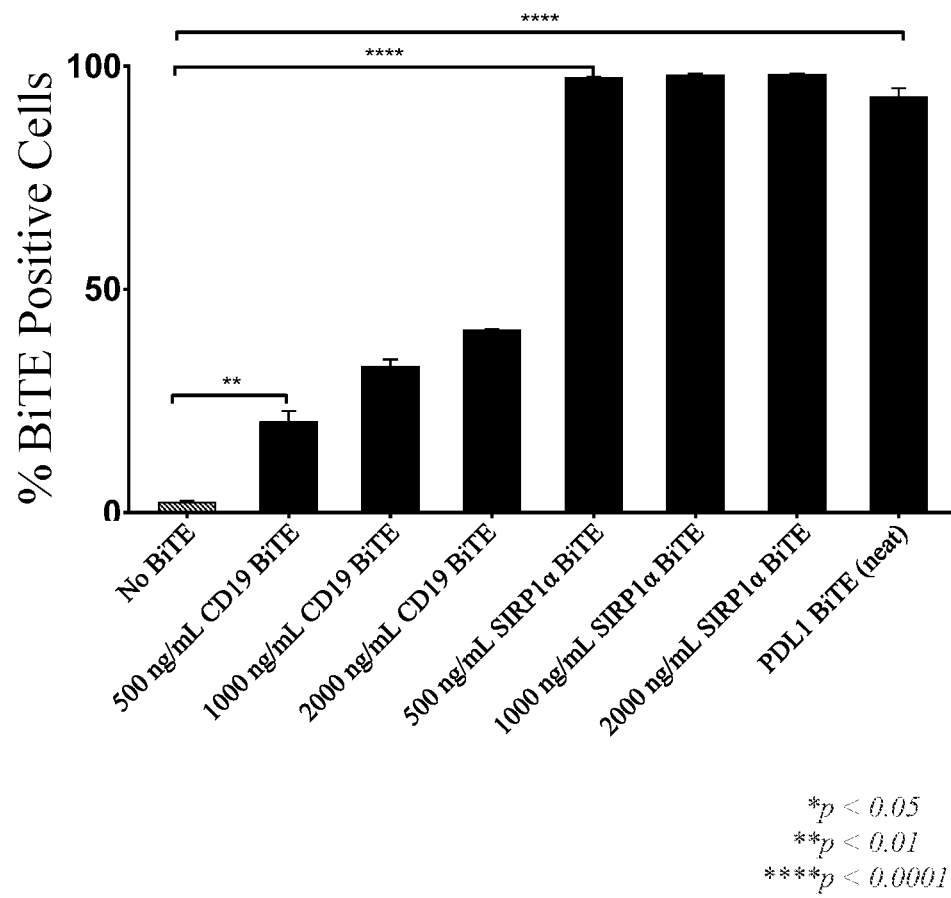


FIG. 21

FIG. 21A

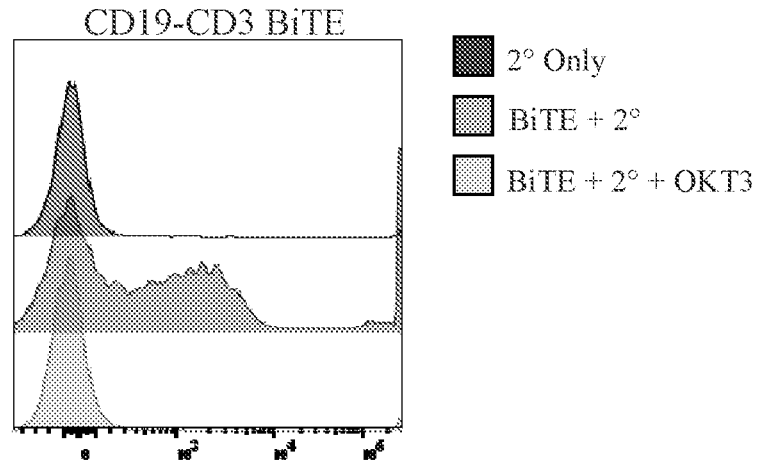


FIG. 21B

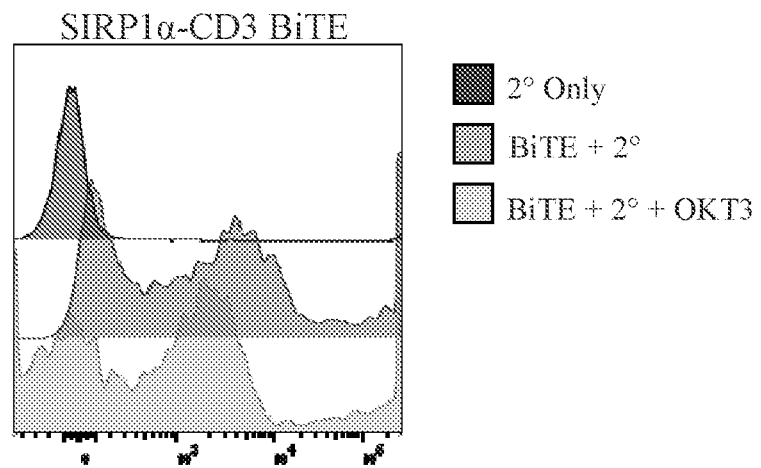


FIG. 21C

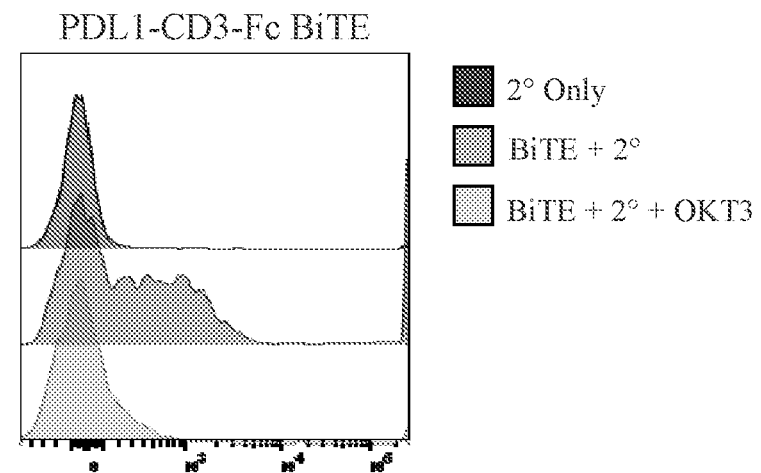


FIG. 22

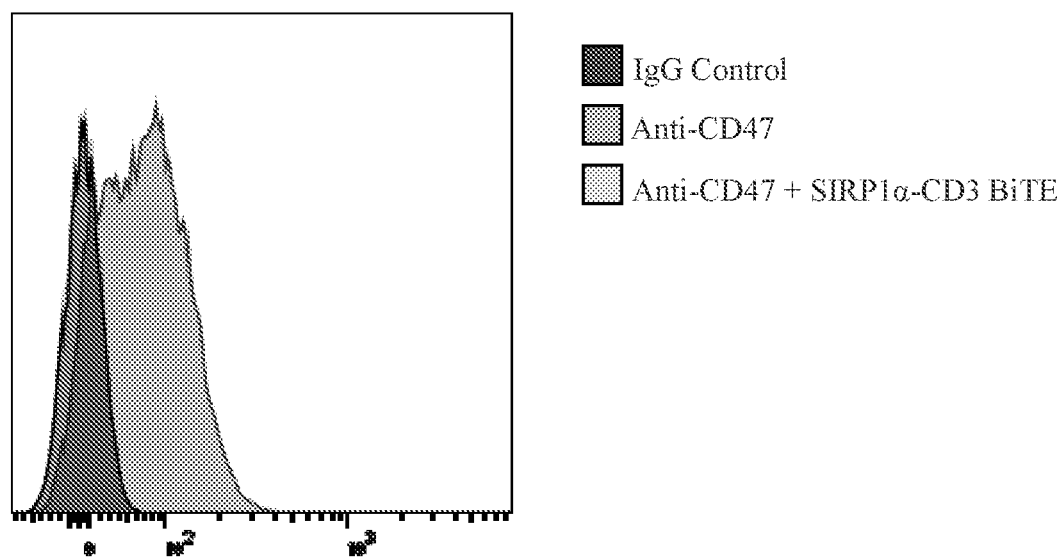


FIG. 23

FIG. 23A

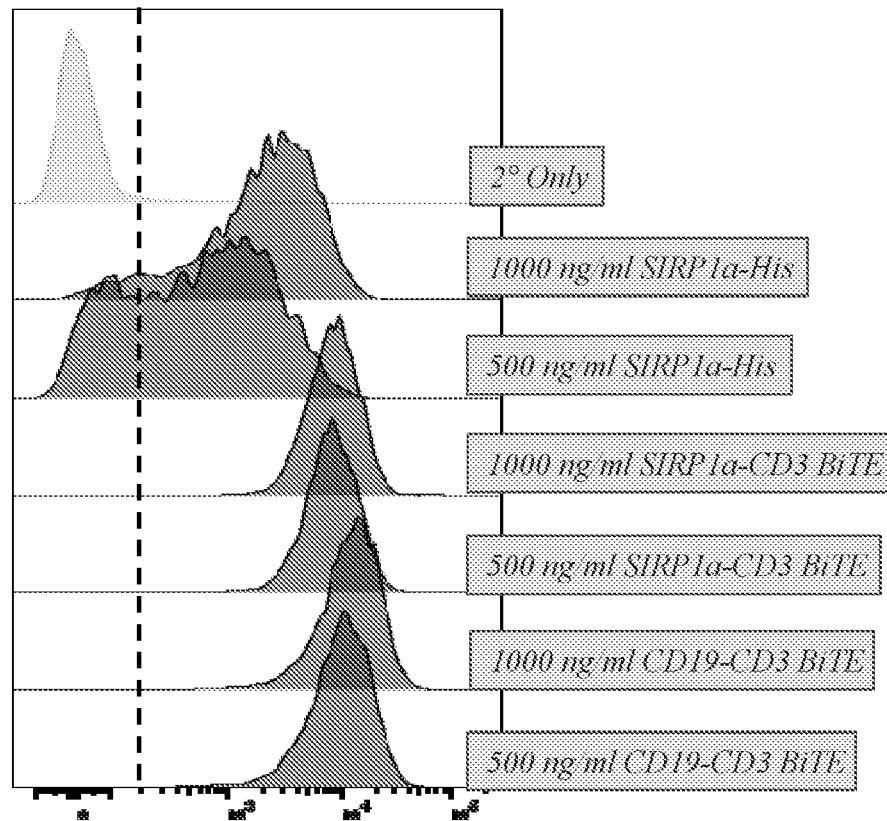


FIG. 23B

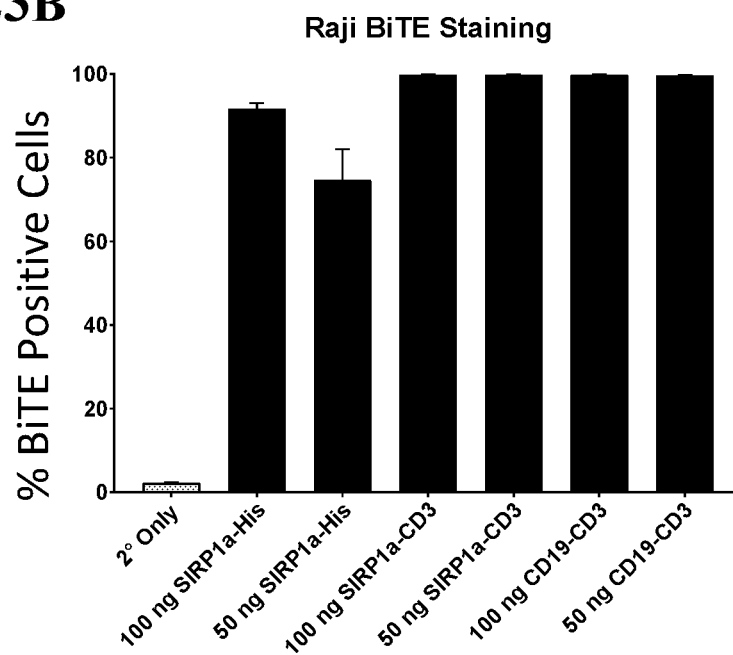


FIG. 24

FIG. 24A

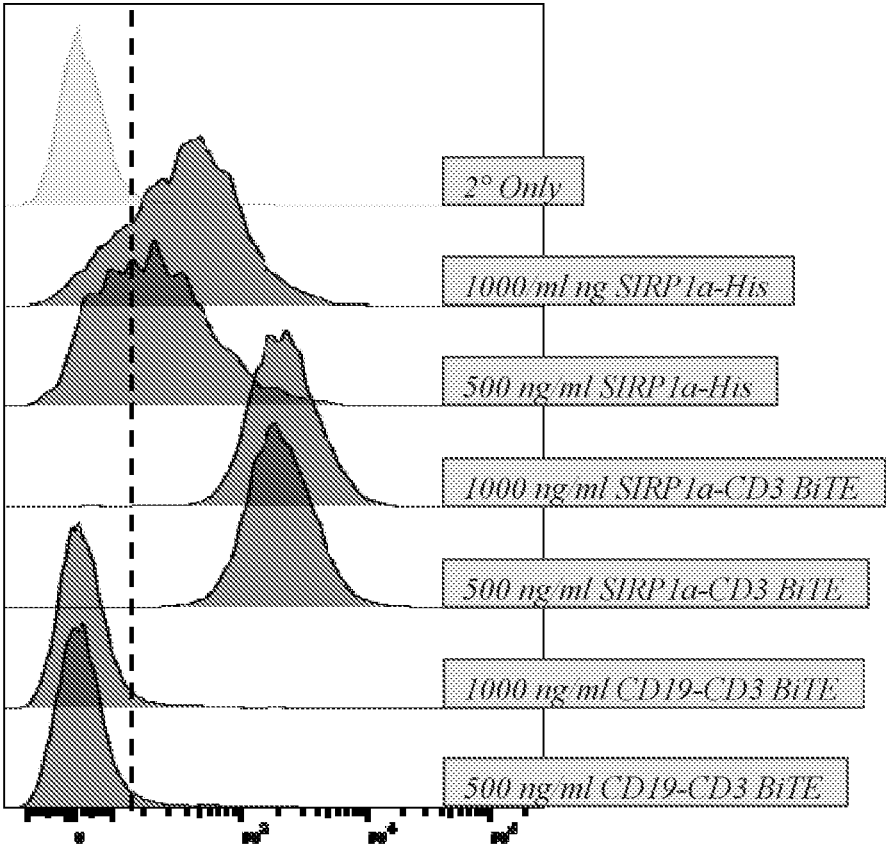


FIG. 24B

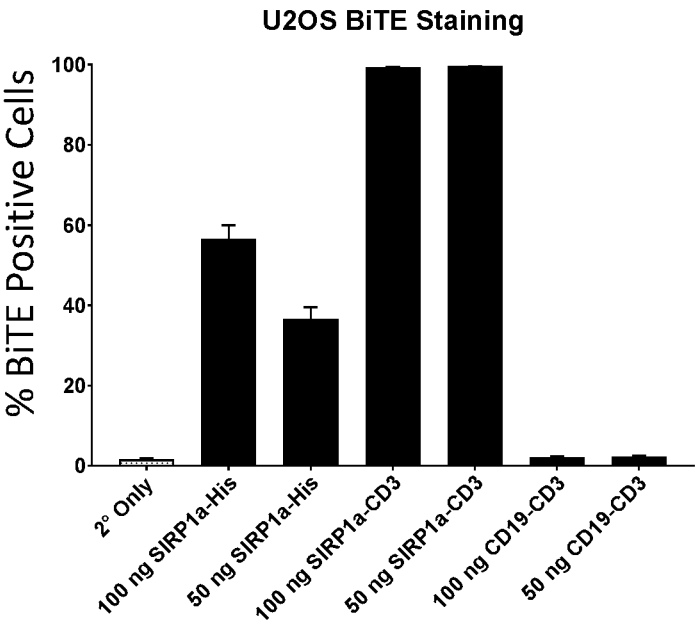


FIG. 25

FIG. 25A

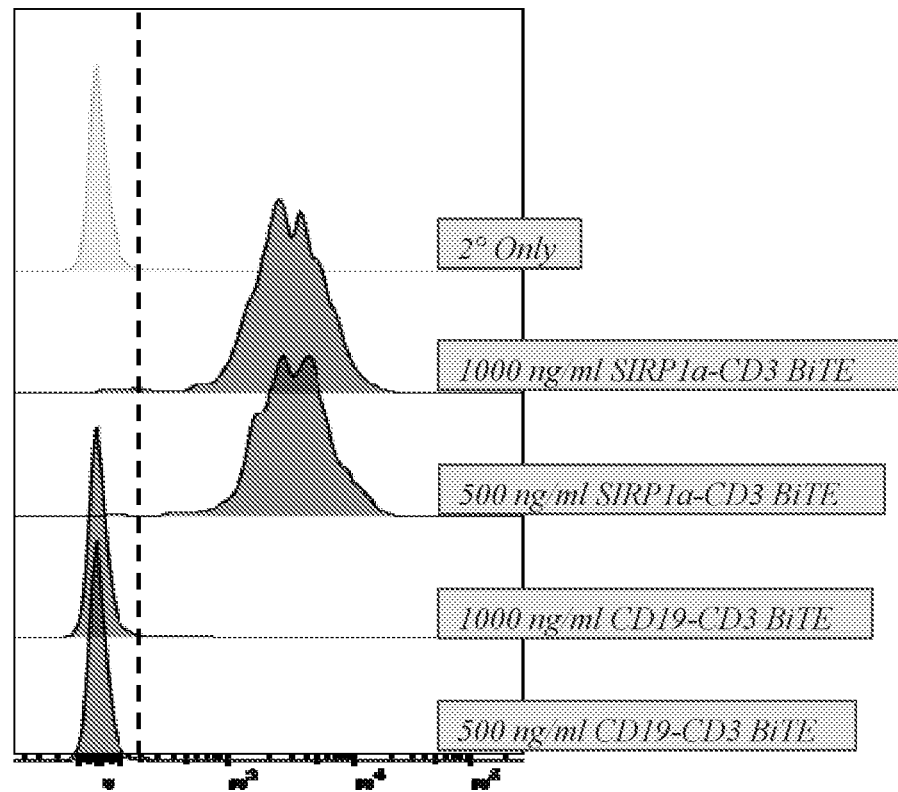


FIG. 25B

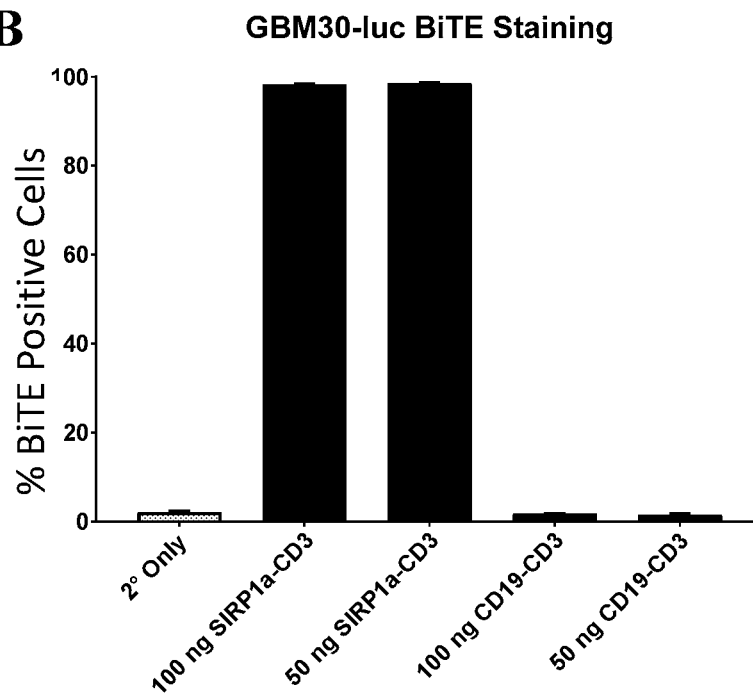


FIG. 26

FIG. 26A

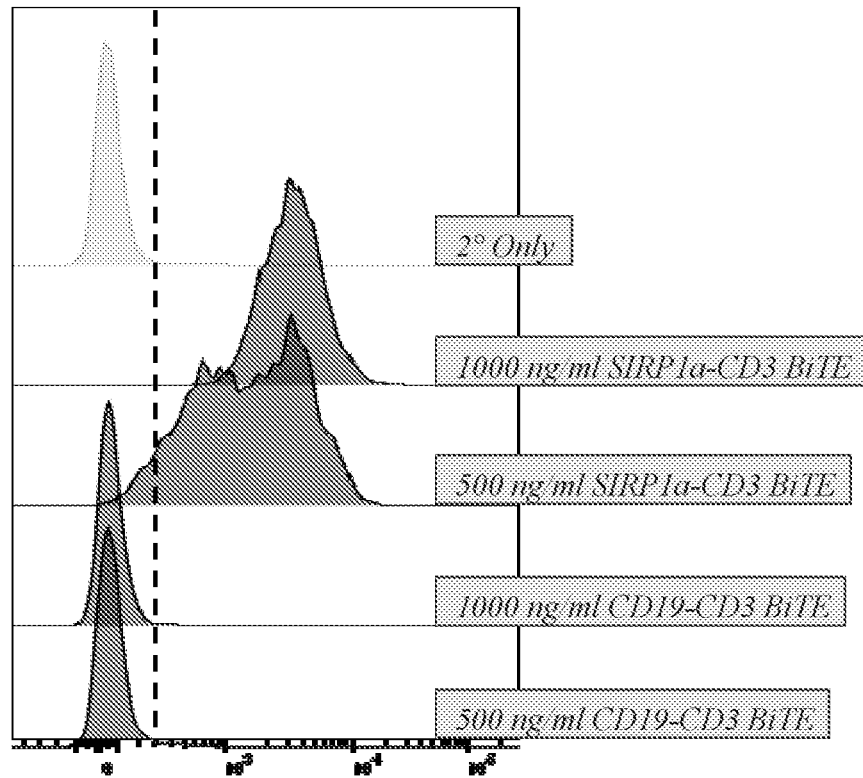


FIG. 26B

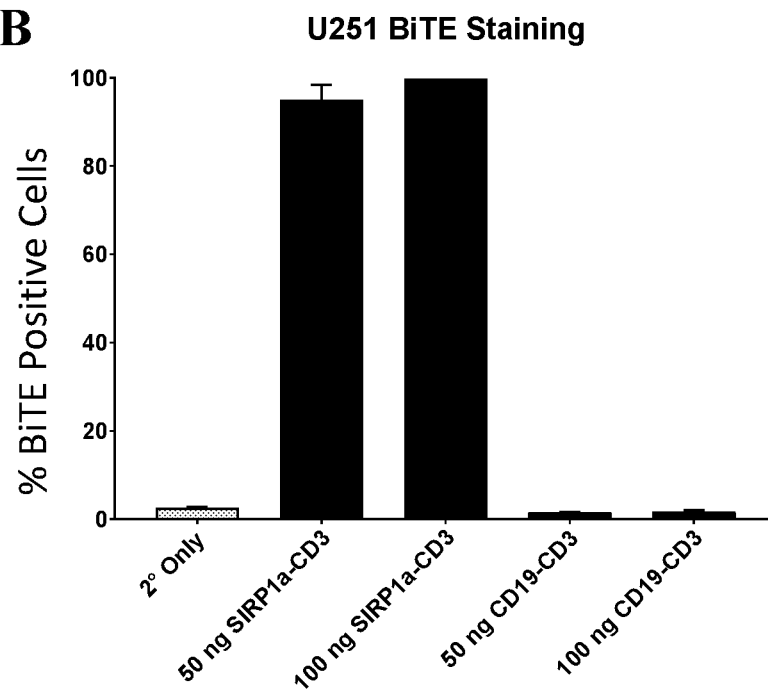


FIG. 27

FIG. 27A

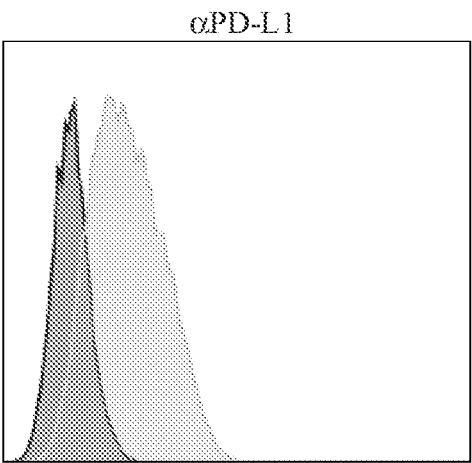


FIG. 27B

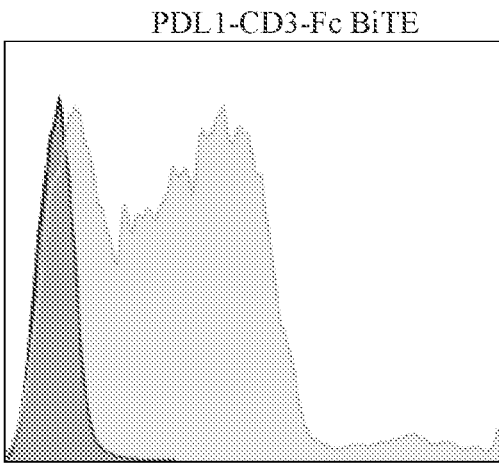


FIG. 27C

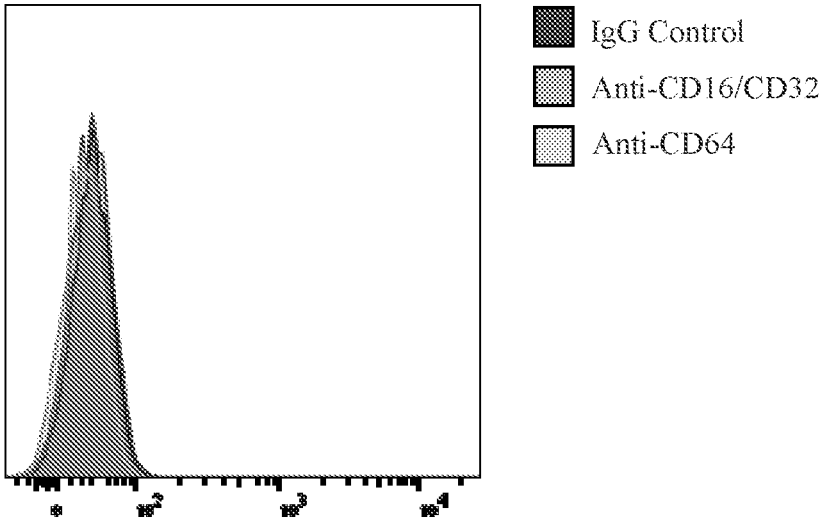


FIG. 28

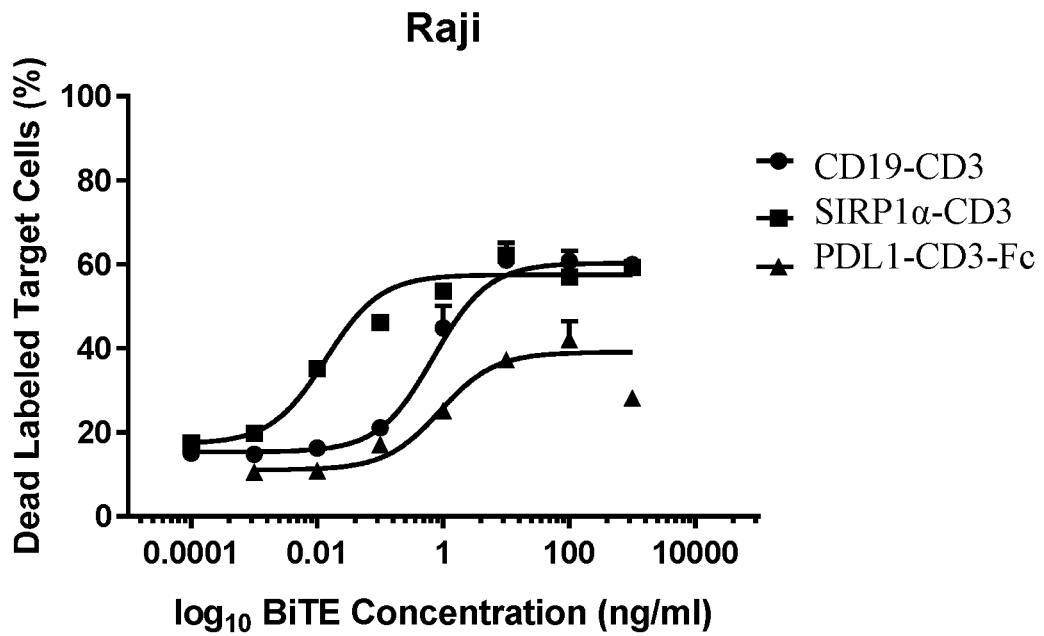


FIG. 29

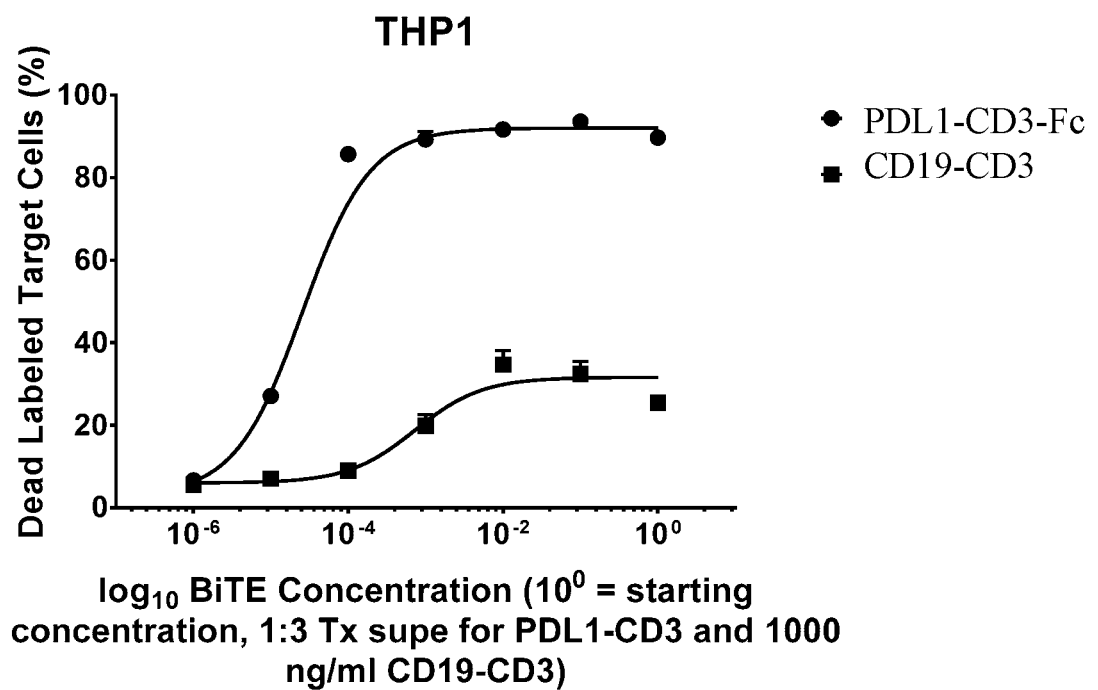


FIG. 30

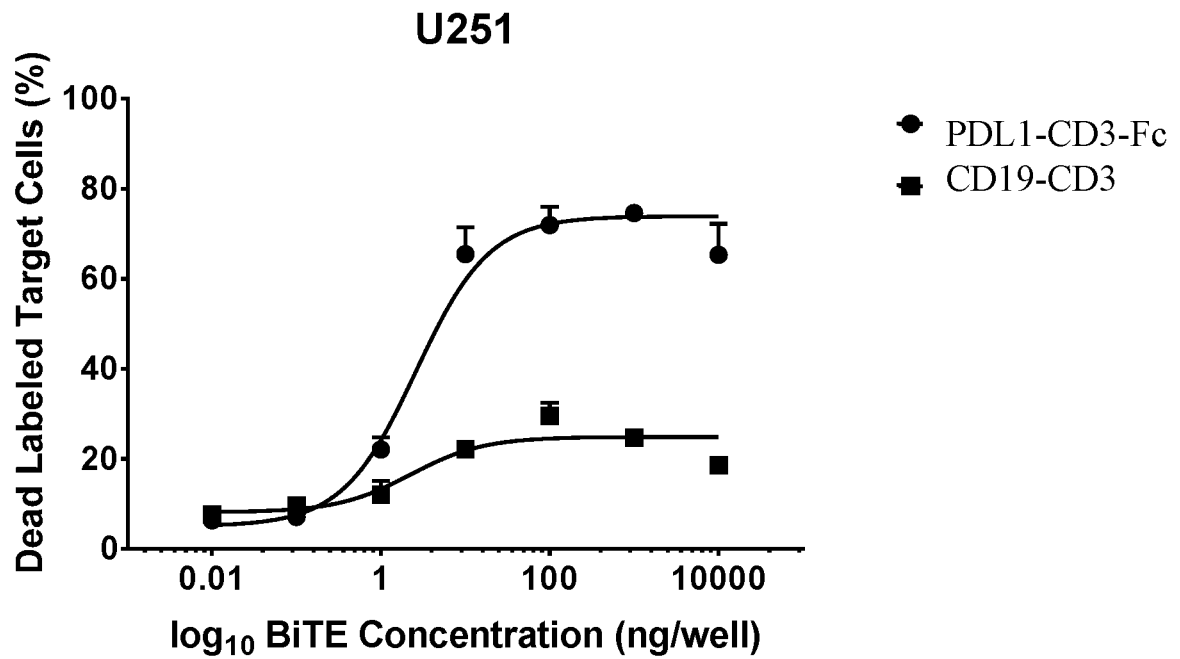


FIG. 31

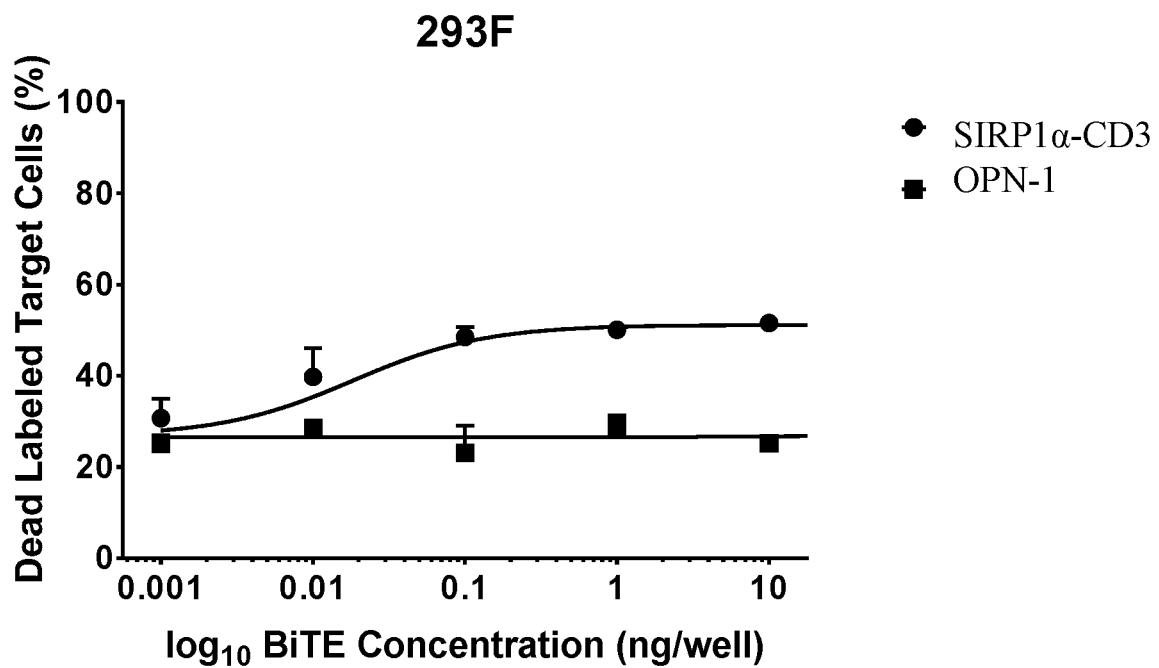
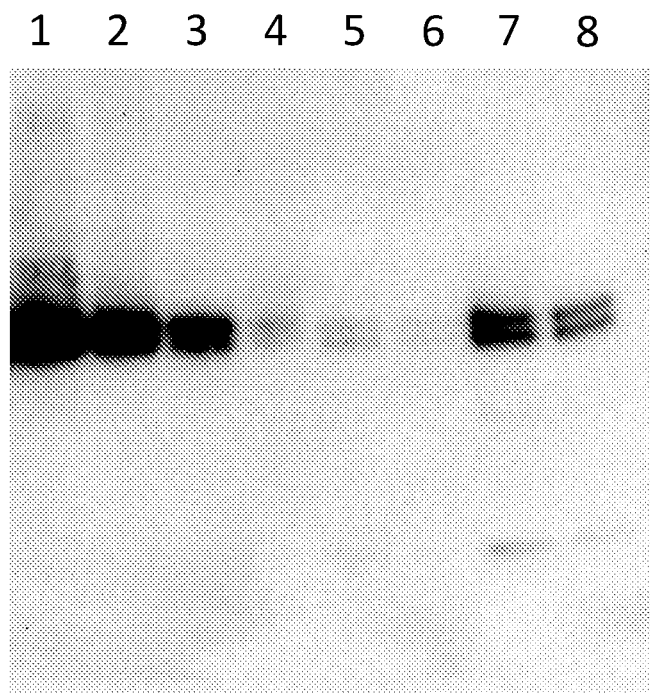


FIG. 32



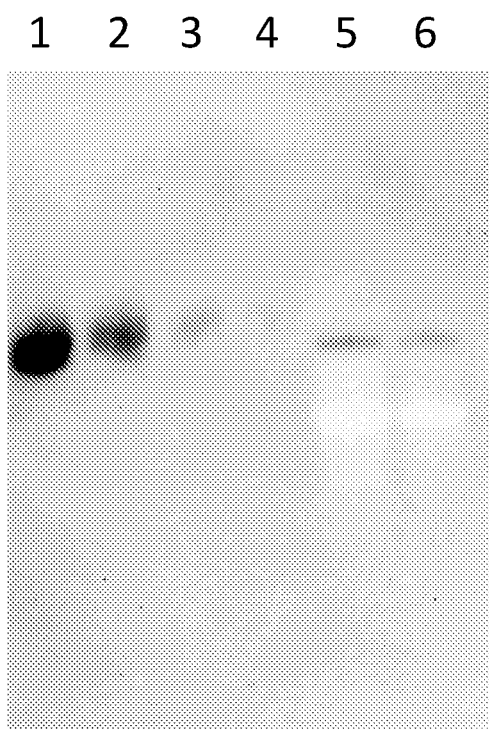
α His tag

- 1: 100 ng ONCR085 (purified)
- 2: 50 ng ONCR085 (purified)
- 3: 25 ng ONCR085 (purified)
- 4: 12.5 ng ONCR085 (purified)
- 5: ONCR085 concentrated viral sup (10 μ L)
- 6: ONCR085 concentrated viral sup (5 μ L)
- 7: ONCR087 concentrated viral sup (10 μ L)
- 8: ONCR087 concentrated viral sup (5 μ L)

ONCR085 = SIRP1 α -CD3 BiTE-SL

ONCR087 = SIRP1 α -CD3 BiTE-LL

FIG. 33



α His tag

- 1: 100 ng ONCR089 (purified)
- 2: 50 ng ONCR089 (purified)
- 3: 25 ng ONCR089 (purified)
- 4: 12.5 ng ONCR089 (purified)
- 5: ONCR089 concentrated viral sup (10 μ L)
- 6: ONCR089 concentrated viral sup (5 μ L)

ONCR089 = PDL1-Fc-CD3

FIG. 34

FIG. 34A

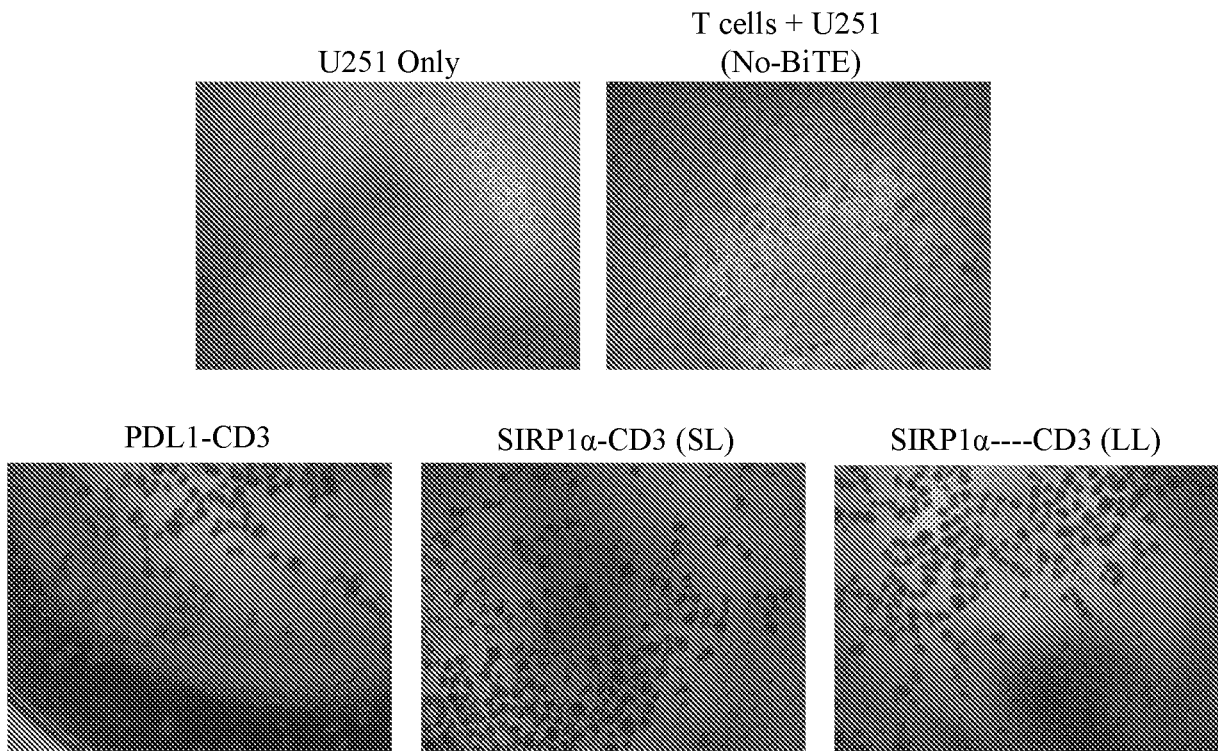


FIG. 34B

Virally Produced BiTE Killing of U251 Cells

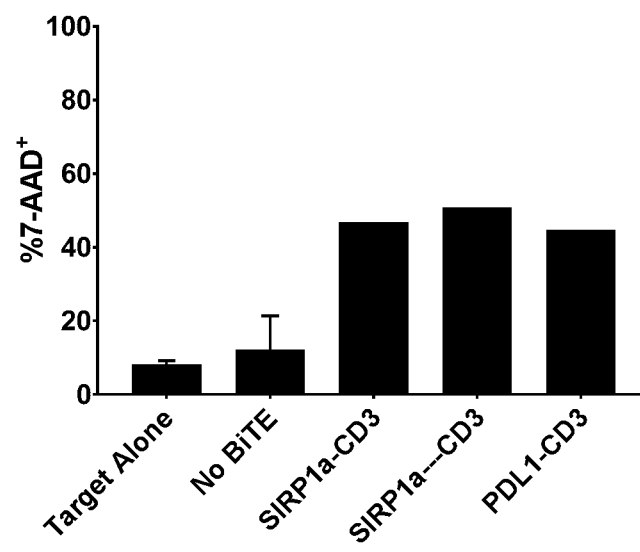


FIG. 35

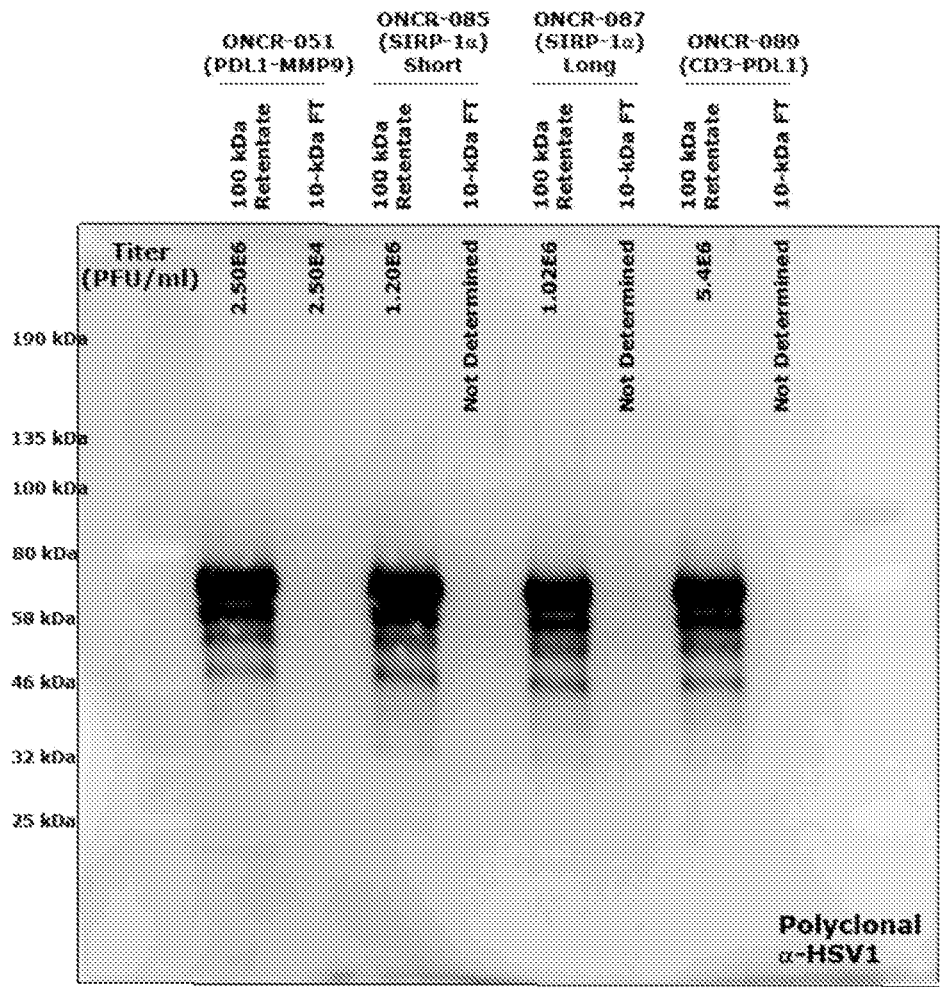
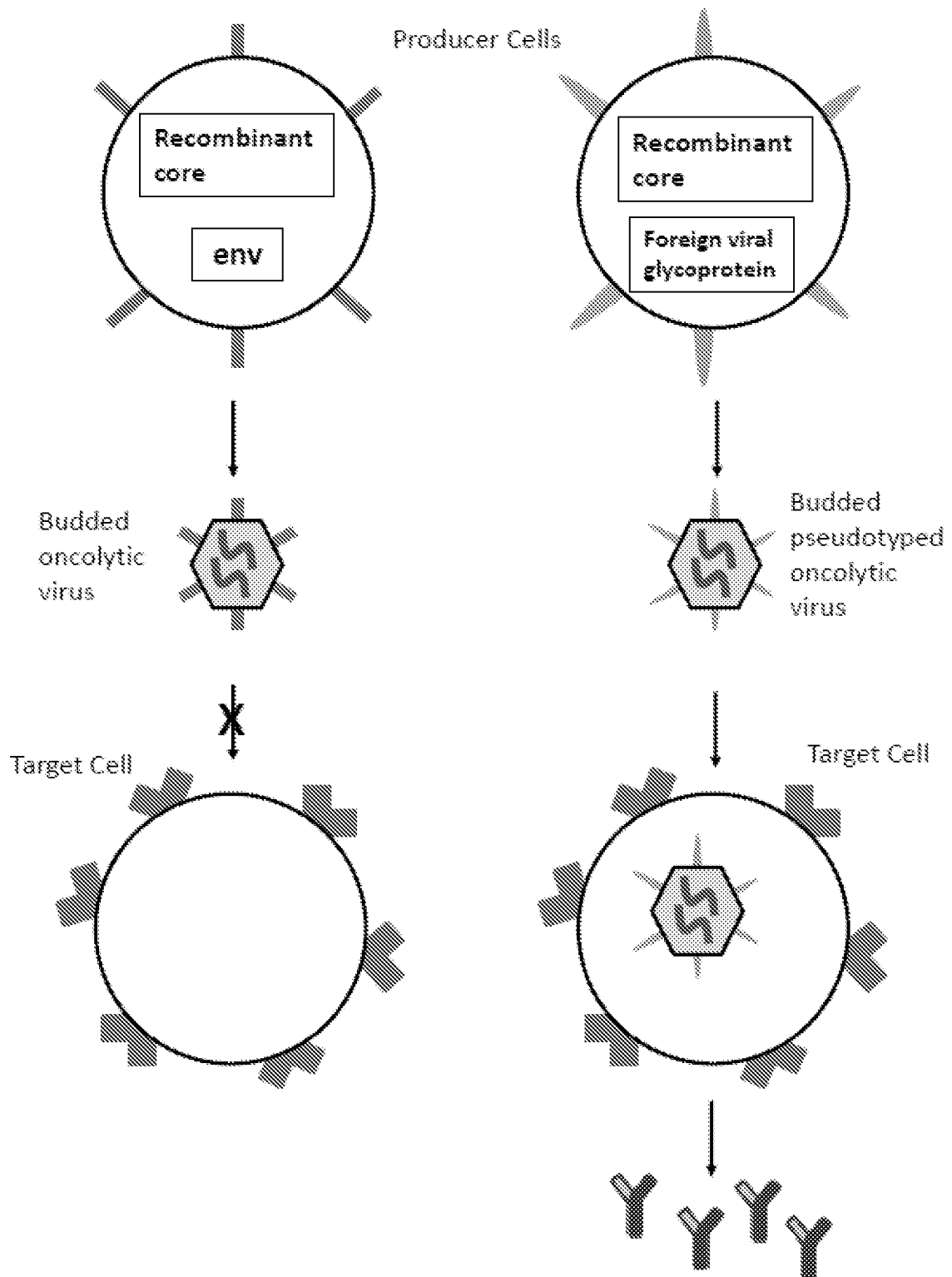


FIG. 36



SIRP1 α -CD3-PDL1-Fc (SL) (SEQ ID NO: 68)

T2A v4: SEQ ID NO: 14
Light chain anti-PDL1: SEQ ID NO: 36
Heavy chain anti-PDL1: SEQ ID NO: 38
IgG1 Fc: SEQ ID NO: 40

SIRP1 α -CD3-PDL1-Fc (LL) (SEQ ID NO: 70)

T2A v4: SEQ ID NO: 14
Light chain anti-PDL1: SEQ ID NO: 36
Heavy chain anti-PDL1: SEQ ID NO: 38
IgG1 Fc: SEQ ID NO: 40

FIG. 39

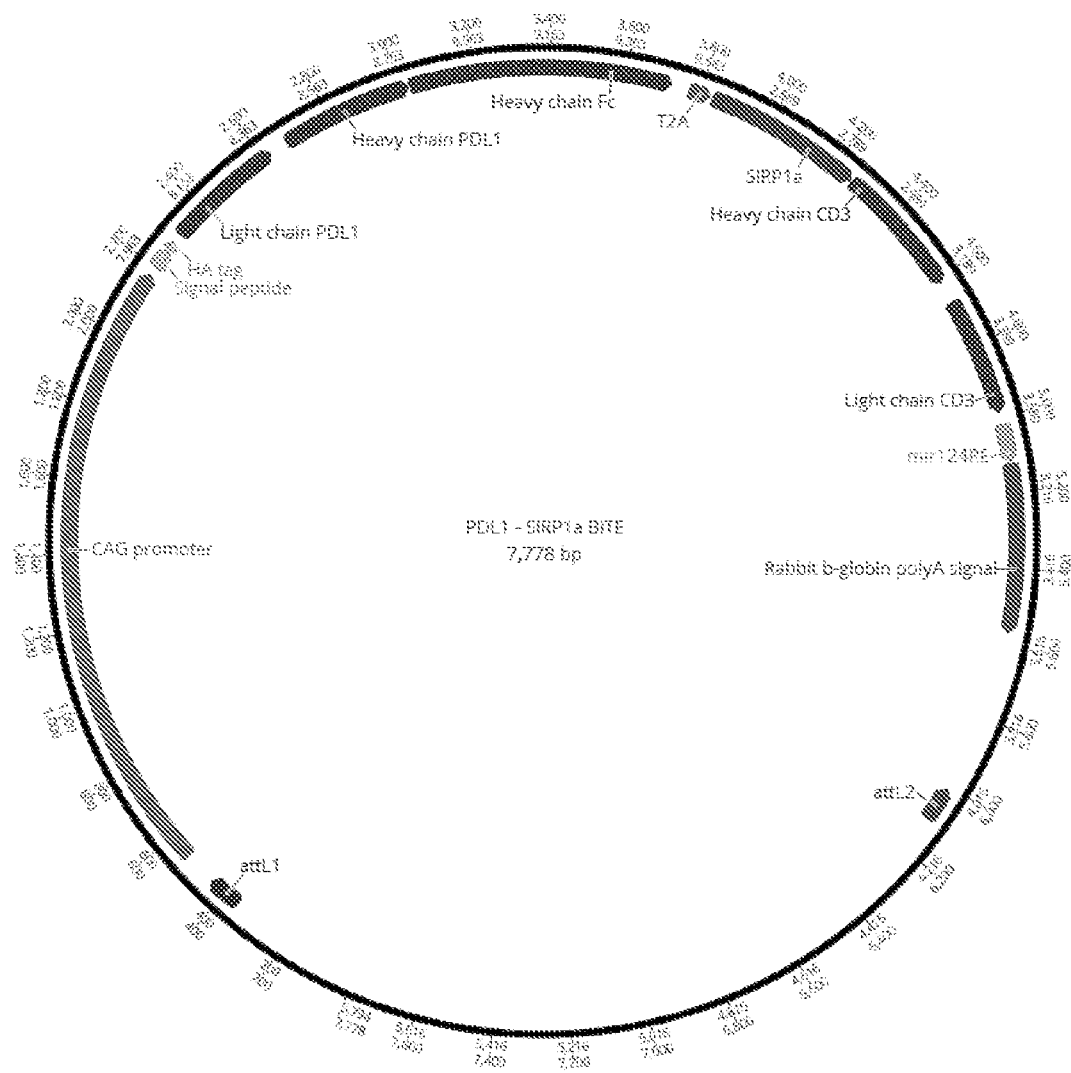
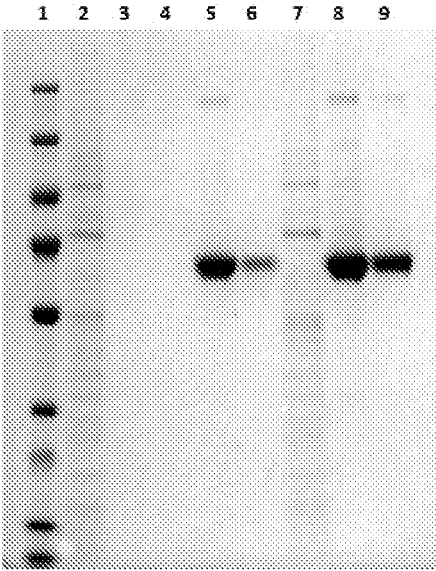


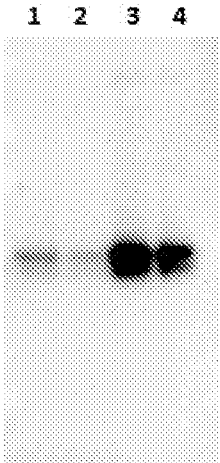
FIG. 40

FIG. 40A



- 1: Protein Ladder
- 2: SIRP1 α -CD3/PDL1-Fc (SL)
Protein A column flow-through
- 3: SIRP1 α -CD3/PDL1-Fc (SL)
Protein A column elution fraction 1
- 4: SIRP1 α -CD3/PDL1-Fc (SL)
Protein A column elution fraction 2
- 5: SIRP1 α -CD3/PDL1-Fc (SL)
Protein A column elution fraction 3
- 6: SIRP1 α -CD3/PDL1-Fc (SL)
Protein A column elution fraction 4
- 7: SIRP1 α -CD3/PDL1-Fc (LL)
Protein A column flow-through
- 8: SIRP1 α -CD3/PDL1-Fc (LL)
Protein A column elution fraction 1
- 9: SIRP1 α -CD3/PDL1-Fc (LL)
Protein A column elution fraction 2

FIG. 40B



- 1: SIRP1 α -CD3/PDL1-Fc (SL)
Protein A column flow-through
(10 μ L)
- 2: SIRP1 α -CD3/PDL1-Fc (SL)
Protein A column flow-through
(5 μ L)
- 3: SIRP1 α -CD3/PDL1-Fc (LL)
Protein A column flow-through
(10 μ L)
- 4: SIRP1 α -CD3/PDL1-Fc (LL)
Protein A column flow-through
(5 μ L)

α His tag western blot

FIG. 41

FIG. 41A

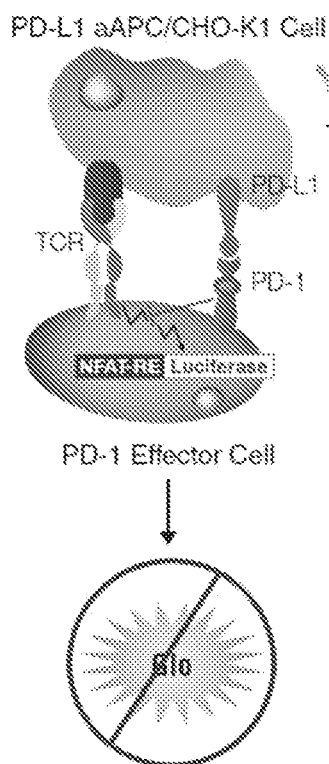


FIG. 41B

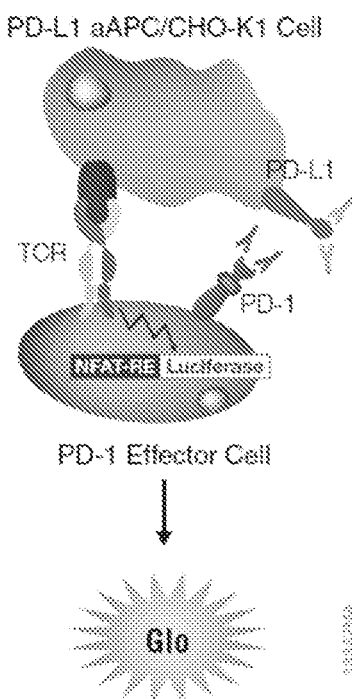


FIG. 41C

