FIG. 2A

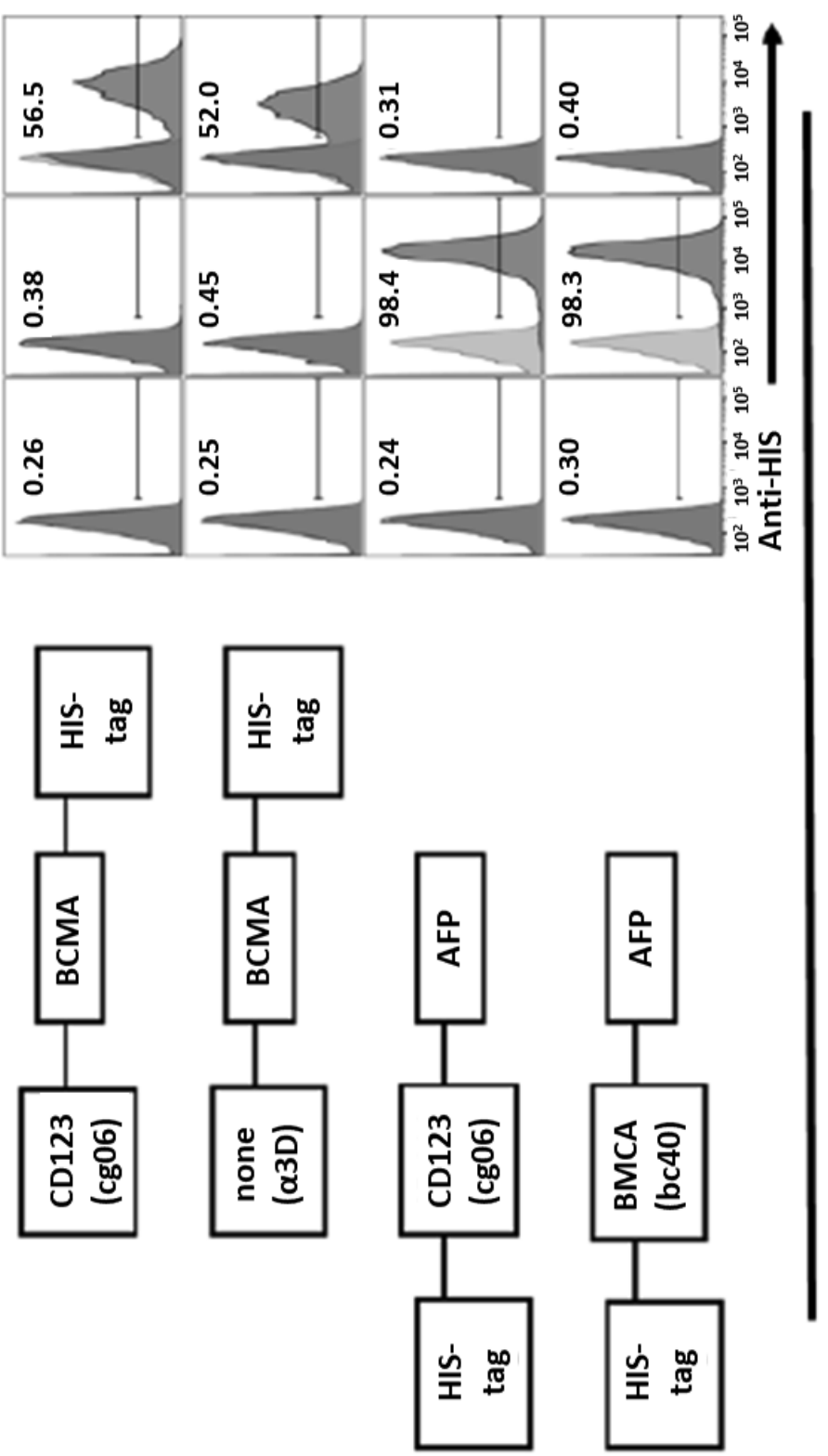

Adapter
CAR Binding Specificity
Binding Domain Specificity
Antigenic Determinant
Negative control (α3D)
AFP-p26 (af03)
BCMA (bc40)
CD123 (cg06)
BCMA
HIS-tag
none (α3D)
BCMA
HIS-tag
CD123 (cg06)
AFP
HIS-tag
BMCA (bc40)
AFP
HIS-tag
0.26
0.38
56.5
0.25
0.45
52.0
0.24
98.4
0.31
0.30
98.3
0.40
Anti-HIS

FIG. 2B

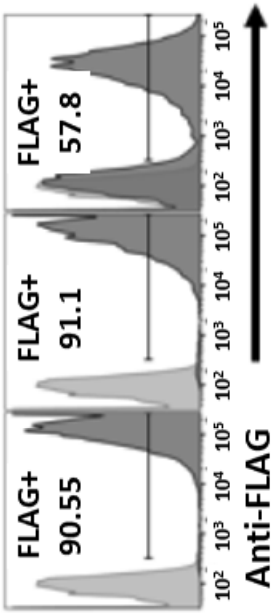

FLAG+ 90.55
FLAG+ 91.1
FLAG+ 57.8
Anti-FLAG

FIG. 8A

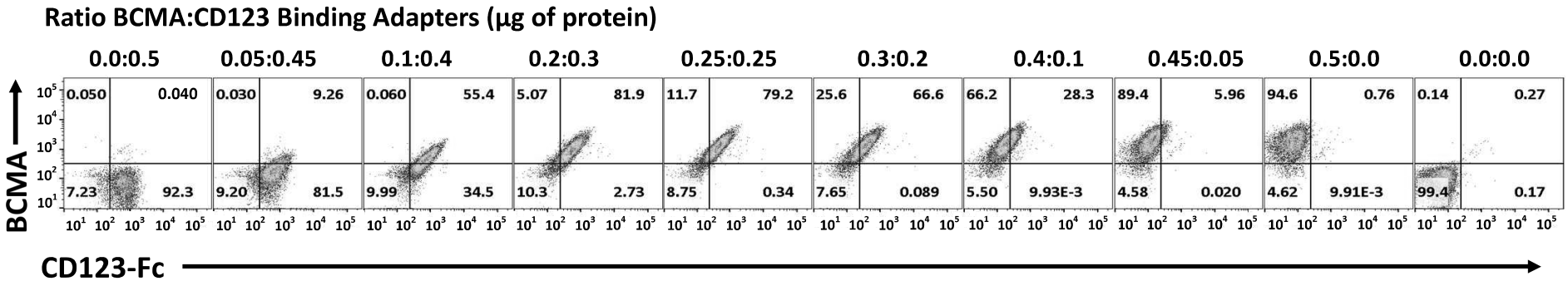
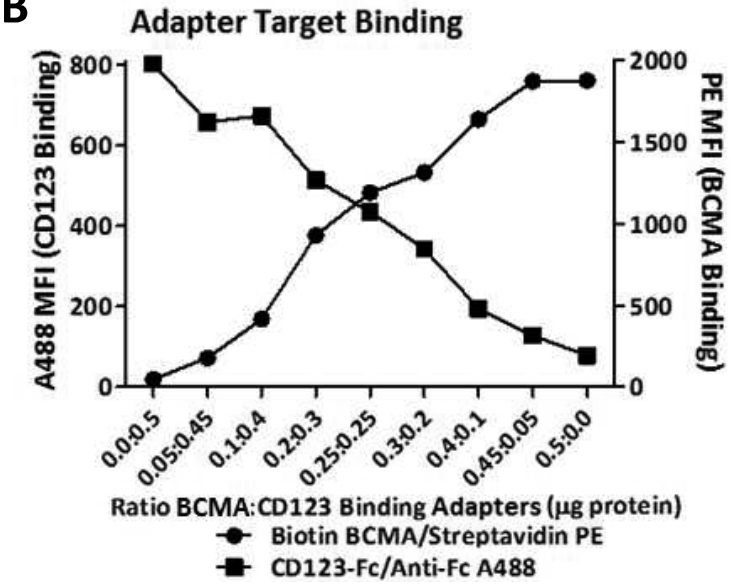

Ratio BCMA:CD123 Binding Adapters (µg of protein)
0.0:0.5
0.05:0.45
0.1:0.4
0.2:0.3
0.25:0.25
0.3:0.2
0.4:0.1
0.45:0.05
0.5:0.0
0.0:0.0
BCMA
CD123-Fc
0.050
0.040
7.23
92.3
0.030
9.26
9.20
81.5
0.060
55.4
9.99
34.5
5.07
81.9
10.3
2.73
11.7
79.2
8.75
0.34
25.6
66.6
7.65
0.089
66.2
28.3
5.50
9.93E-3
89.4
5.96
4.58
0.020
94.6
0.76
4.62
9.91E-3
0.14
0.27
99.4
0.17

FIG. 8B


Adapter Target Binding
A488 MFI (CD123 Binding)
PE MFI (BCMA Binding)
800
600
400
200
0
2000
1500
1000
500
0
0.0:0.5
0.05:0.45
0.1:0.4
0.2:0.3
0.25:0.25
0.3:0.2
0.4:0.1
0.45:0.05
0.5:0.0
Ratio BCMA:CD123 Binding Adapters (µg protein)
Biotin BCMA/Streptavidin PE
CD123-Fc/Anti-Fc A488

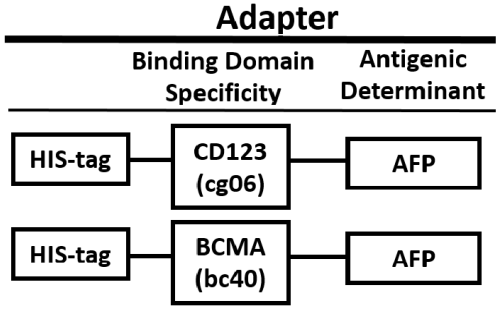
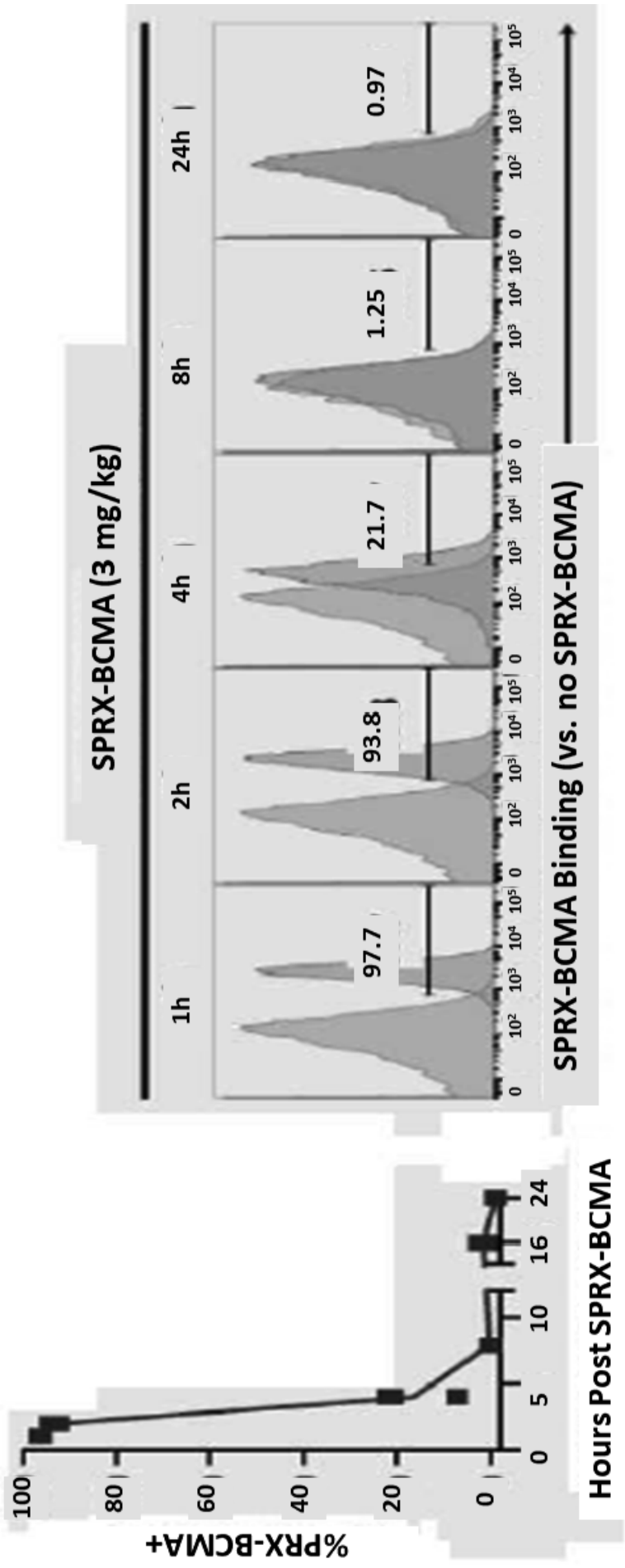

Adapter
Binding Domain Specificity
Antigenic Determinant
HIS-tag
CD123 (cg06)
AFP
HIS-tag
BCMA (bc40)
AFP

FIG. 15


SPRX-BCMA (3 mg/kg)
1h
2h
4h
8h
24h
97.7
93.8
21.7
1.25
0.97
SPRX-BCMA Binding (vs. no SPRX-BCMA)
%PRX-BCMA+
100
80
60
40
20
0
0
5
10
16
24
Hours Post SPRX-BCMA