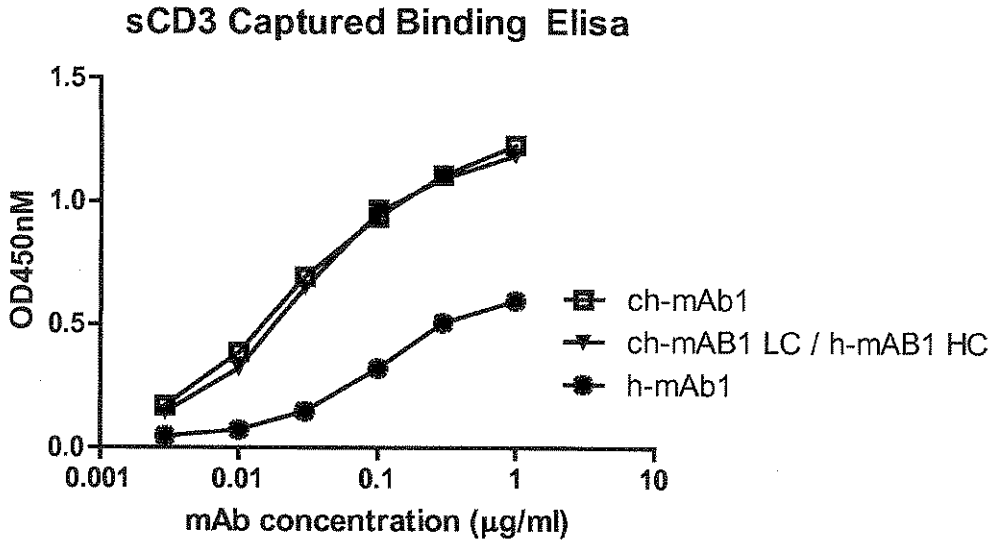



Figure 1A

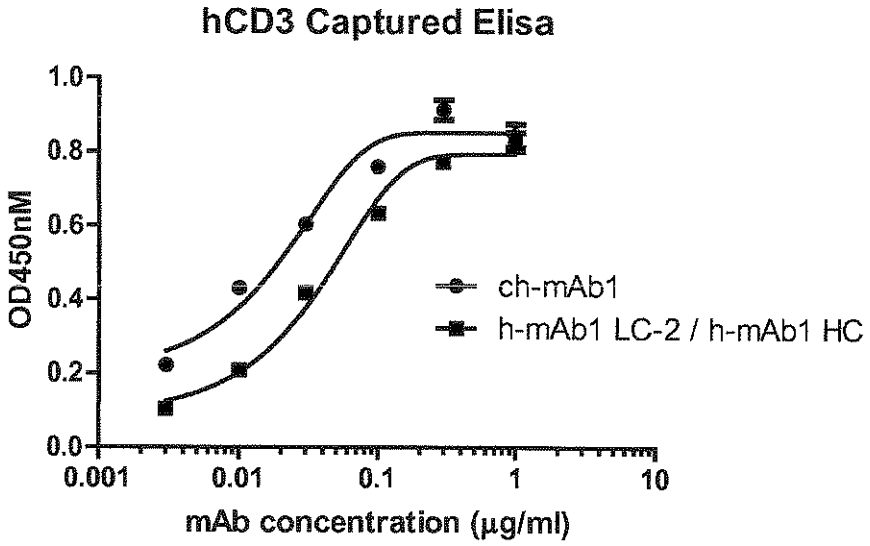



Figure 1B

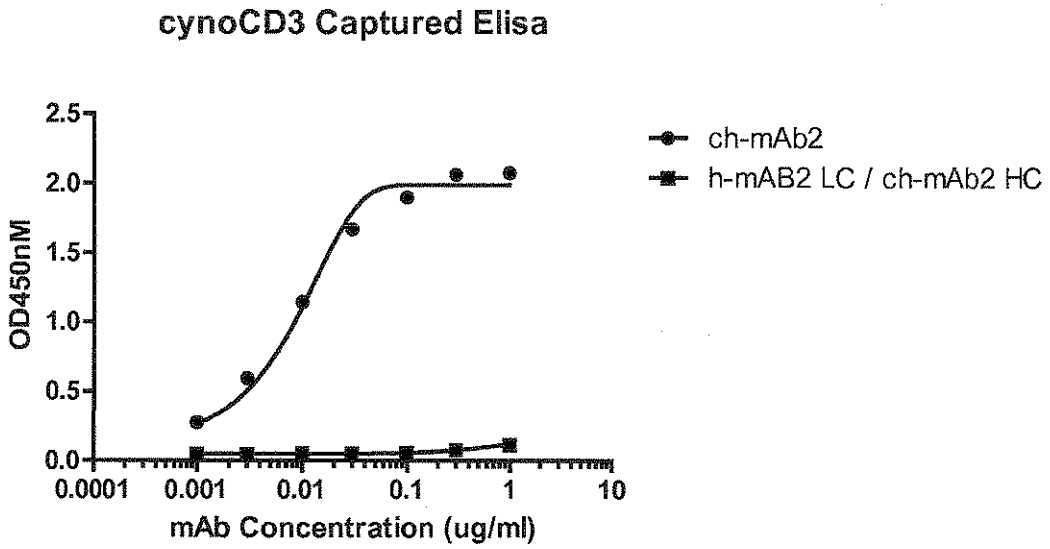



Figure 2A

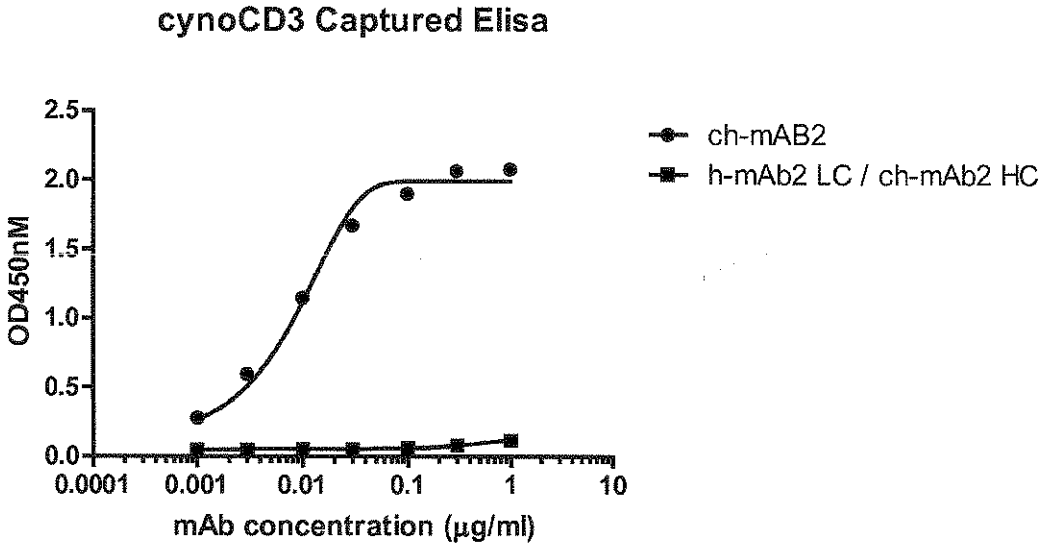



Figure 2B

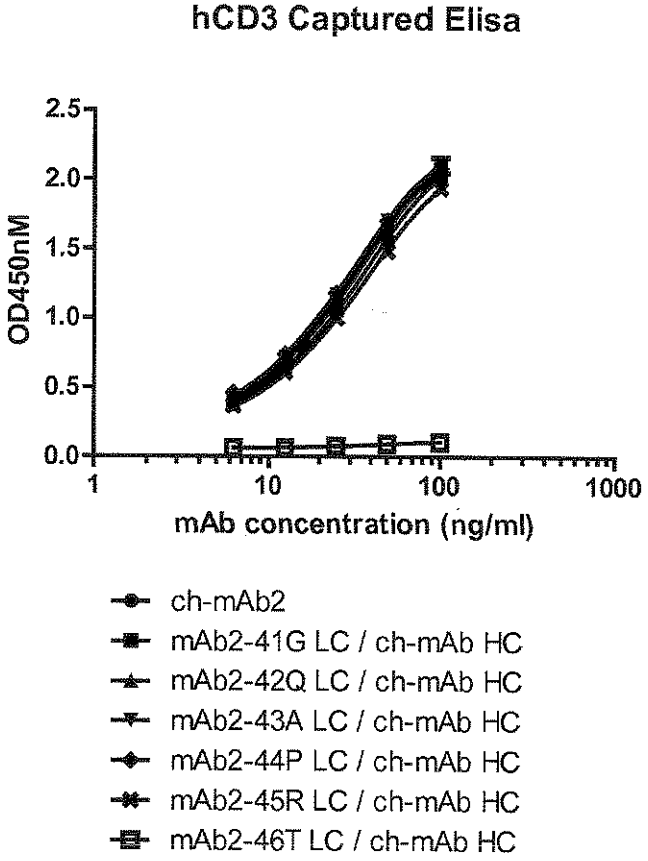

hCD3 Captured Elisa
OD450nM
2.5
2.0
1.5
1.0
0.5
0.0
1
10
100
1000
mAb concentration (ng/ml)
ch-mAb2
mAb2-41G LC / ch-mAb HC
mAb2-42Q LC / ch-mAb HC
mAb2-43A LC / ch-mAb HC
mAb2-44P LC / ch-mAb HC
mAb2-45R LC / ch-mAb HC
mAb2-46T LC / ch-mAb HC

**Figure 3**

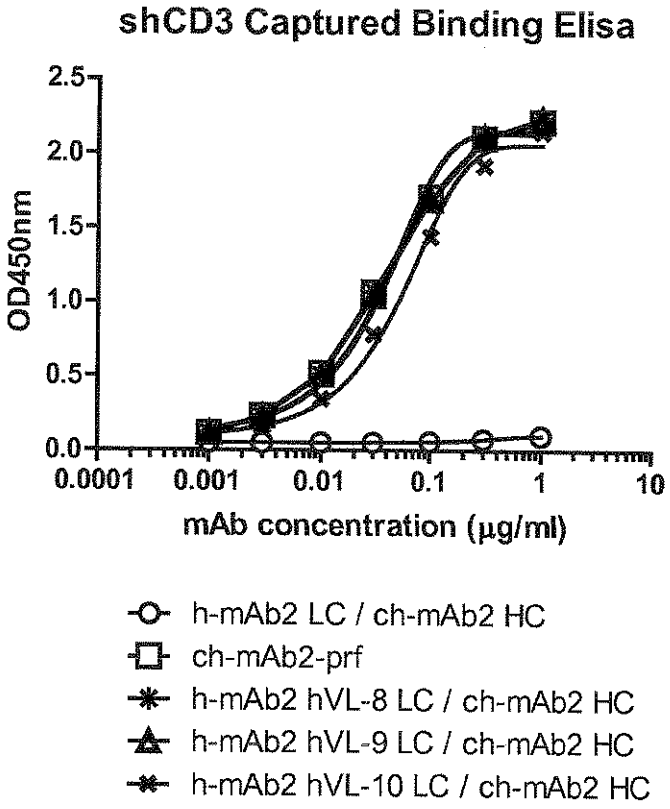

shCD3 Captured Binding Elisa
OD450nm
2.5
2.0
1.5
1.0
0.5
0.0
0.0001
0.001
0.01
0.1
1
10
mAb concentration (µg/ml)
h-mAb2 LC / ch-mAb2 HC
ch-mAb2-prf
h-mAb2 hVL-8 LC / ch-mAb2 HC
h-mAb2 hVL-9 LC / ch-mAb2 HC
h-mAb2 hVL-10 LC / ch-mAb2 HC

**Figure 4**

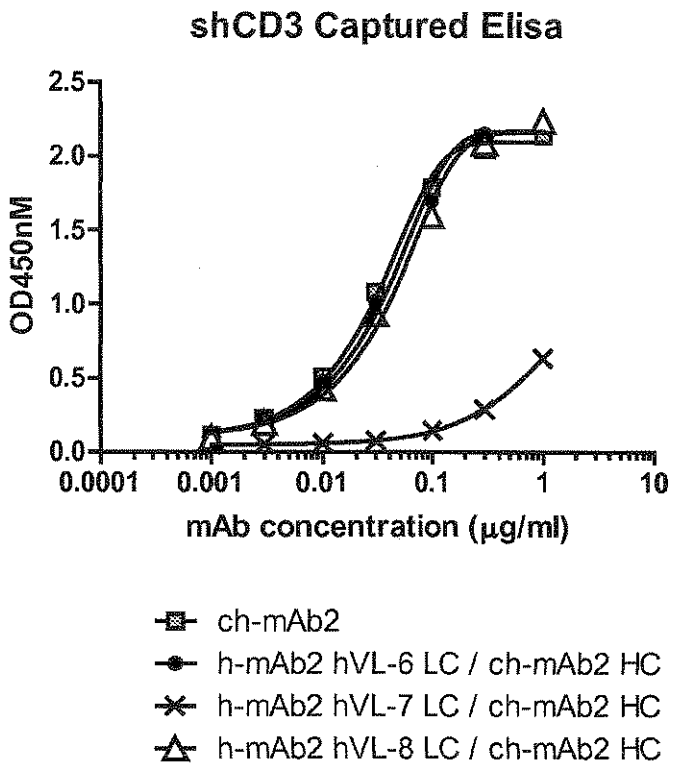

shCD3 Captured Elisa
OD450nM
2.5
2.0
1.5
1.0
0.5
0.0
0.0001
0.001
0.01
0.1
1
10
mAb concentration (µg/ml)
ch-mAb2
h-mAb2 hVL-6 LC / ch-mAb2 HC
h-mAb2 hVL-7 LC / ch-mAb2 HC
h-mAb2 hVL-8 LC / ch-mAb2 HC

**Figure 5**

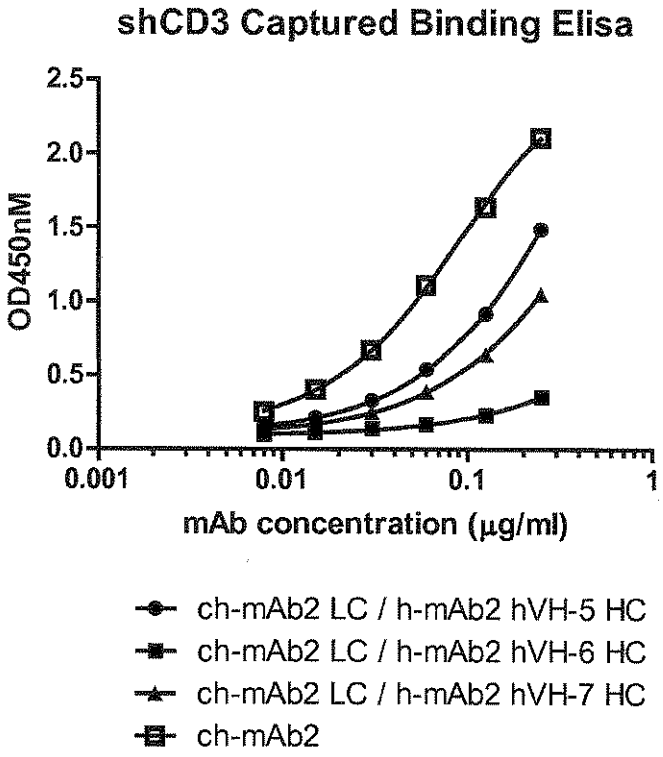

shCD3 Captured Binding Elisa
OD450nM
2.5
2.0
1.5
1.0
0.5
0.0
0.001
0.01
0.1
1
mAb concentration (µg/ml)
ch-mAb2 LC / h-mAb2 hVH-5 HC
ch-mAb2 LC / h-mAb2 hVH-6 HC
ch-mAb2 LC / h-mAb2 hVH-7 HC
ch-mAb2

**Figure 6**

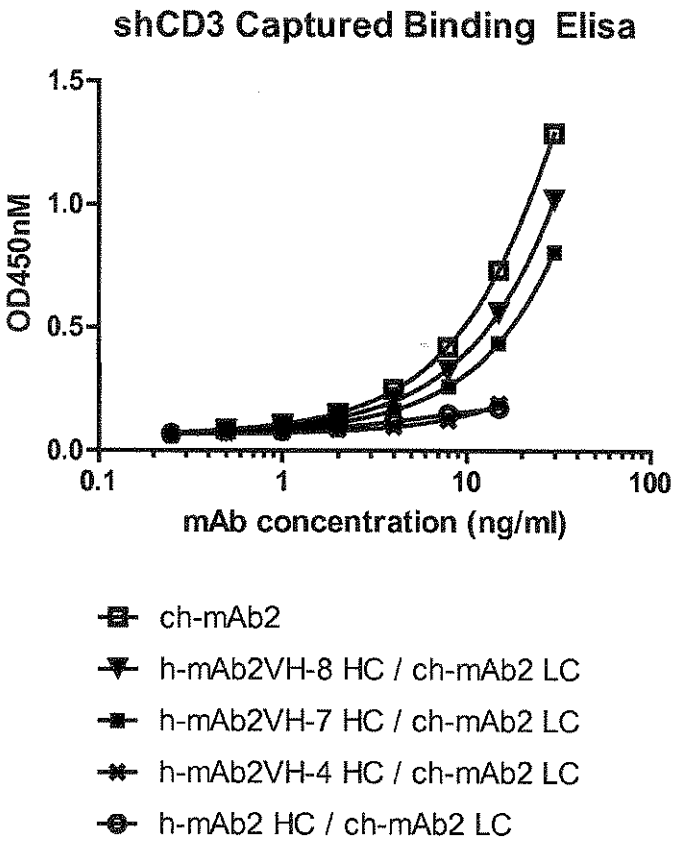

shCD3 Captured Binding Elisa
OD450nM
1.5
1.0
0.5
0.0
0.1
1
10
100
mAb concentration (ng/ml)
ch-mAb2
h-mAb2VH-8 HC / ch-mAb2 LC
h-mAb2VH-7 HC / ch-mAb2 LC
h-mAb2VH-4 HC / ch-mAb2 LC
h-mAb2 HC / ch-mAb2 LC

**Figure 7**

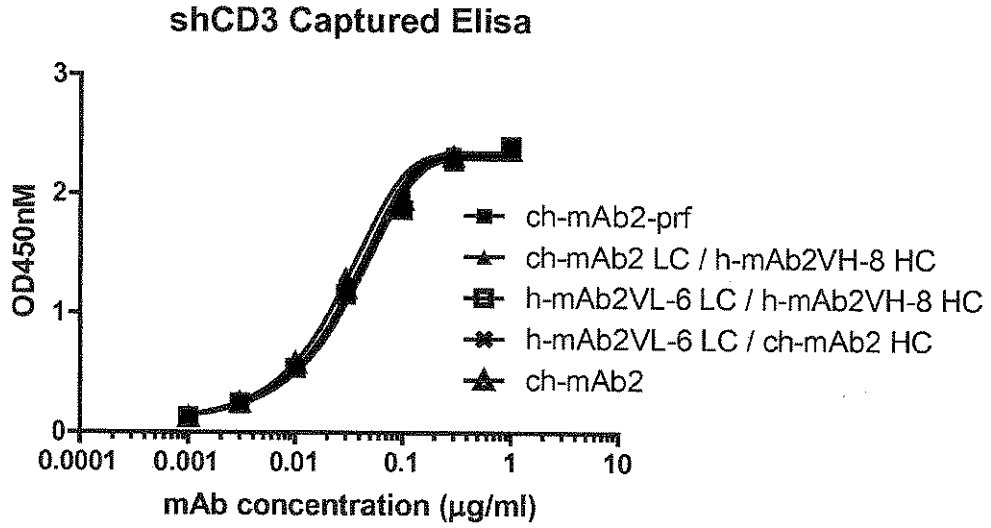



Figure 8A

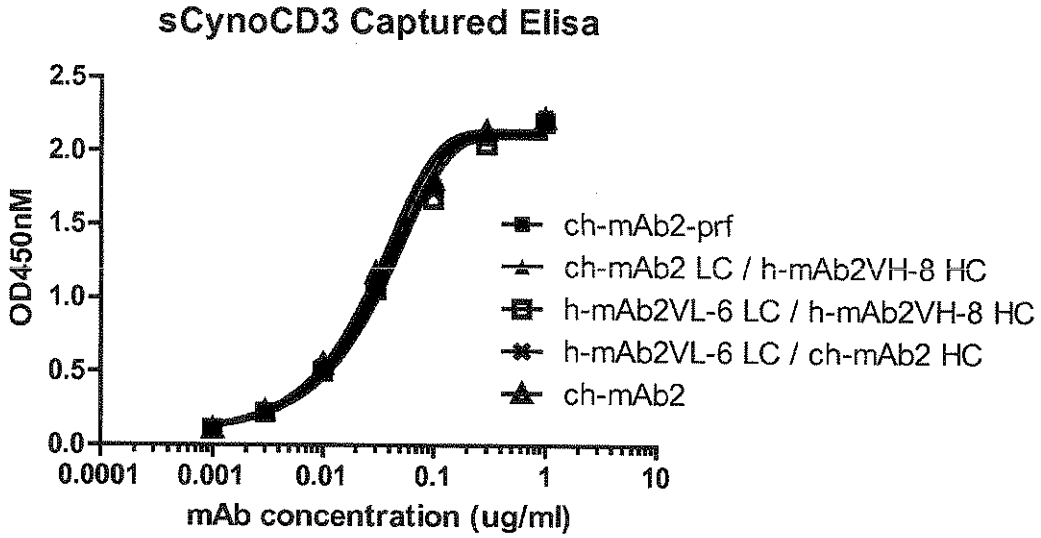
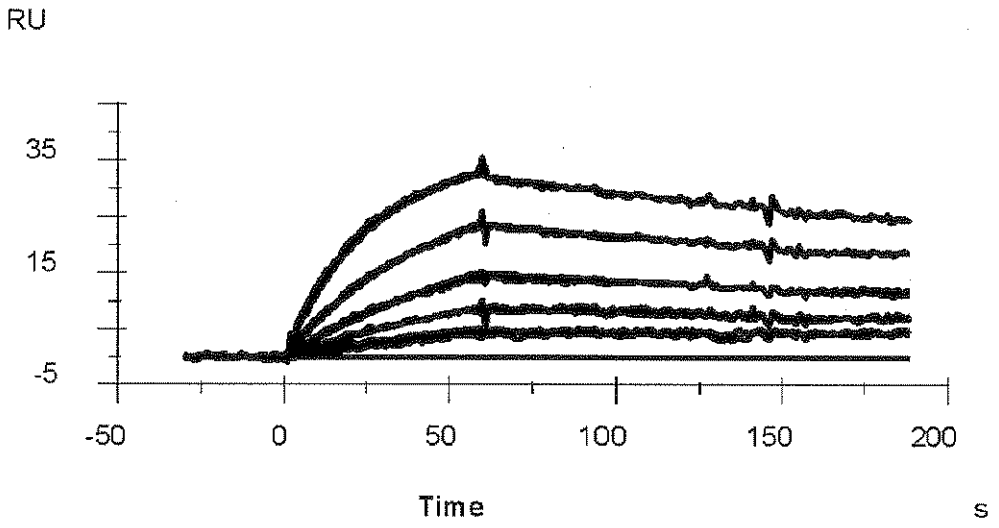
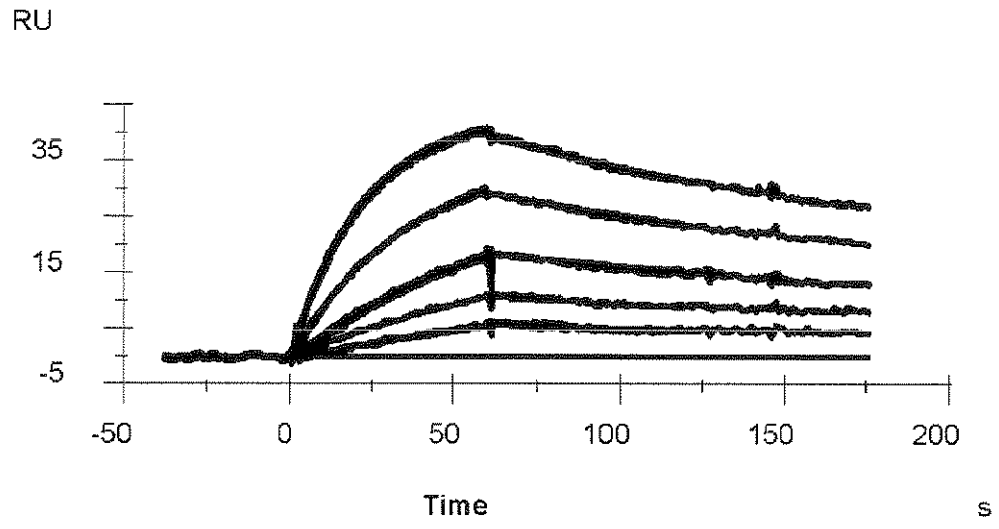



Figure 8B



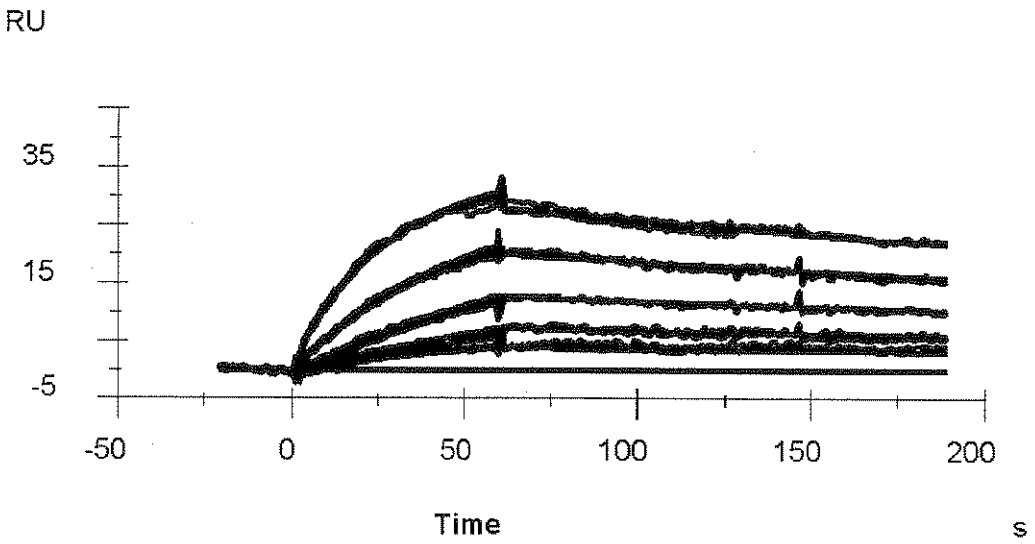

ch-mAb2 / shCD3
$K_a = 1.7 \times 10^5$ $K_d = 2.5 \times 10^{-3}$ $K_D = 14.7$ nM

**Figure 9A**




h-mAb2 8.6 / shCD3
$K_a = 1.9 \times 10^5$ $K_d = 3.8 \times 10^{-3}$ $K_D = 20.0$ nM

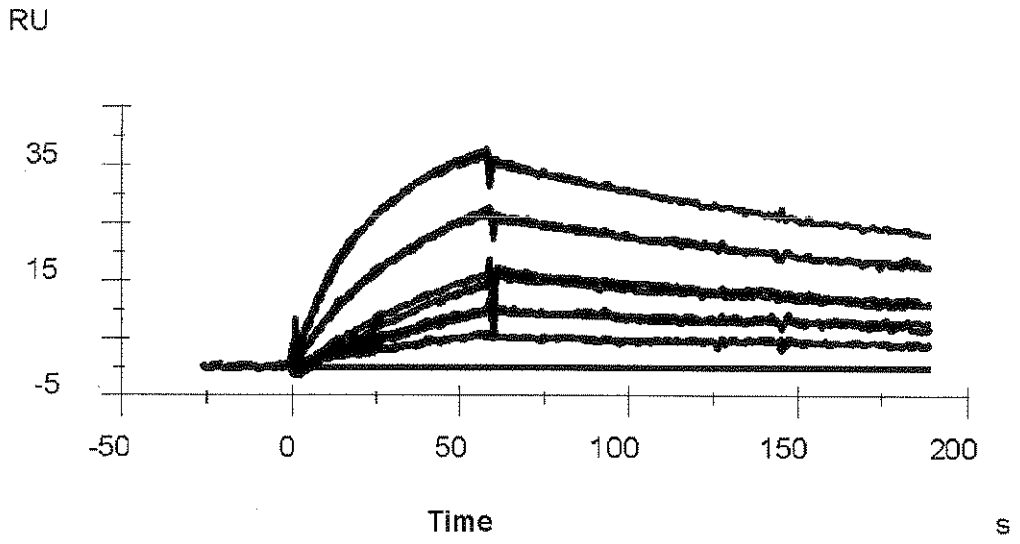
**Figure 9B**




ch-mAb2 / scCD3

$K_a = 1.6 \times 10^5$ $K_d = 2.3 \times 10^{-3}$ $K_D = 14.4$ nM

**Figure 9C**




h-mAb2 8.6 / shCD3

$K_a = 1.7 \times 10^5$ $K_d = 4.1 \times 10^{-3}$ $K_D = 24.1$ nM

**Figure 9D**

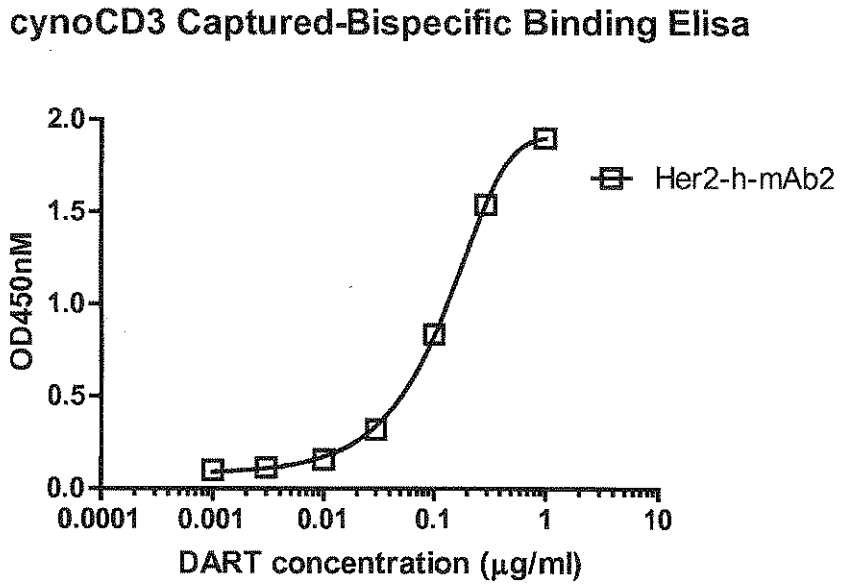



Figure 10A

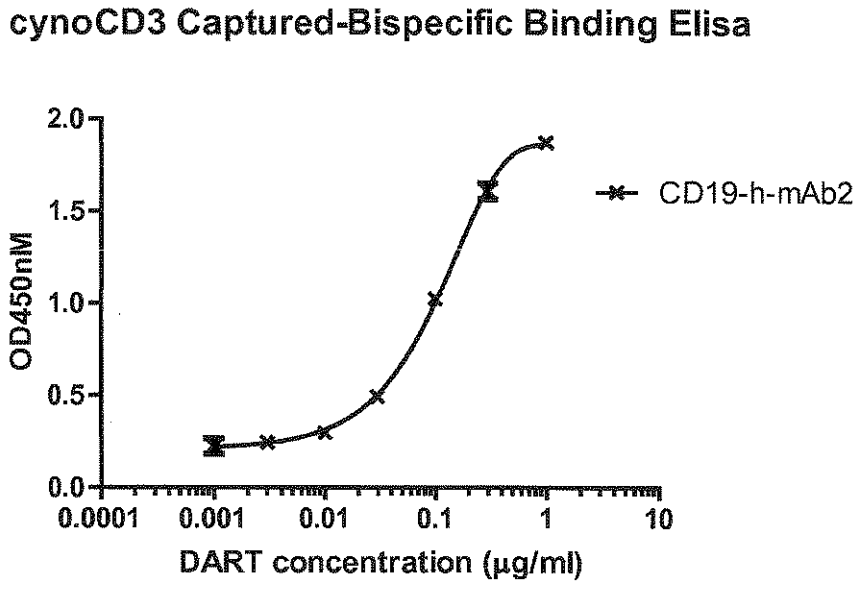



Figure 10B

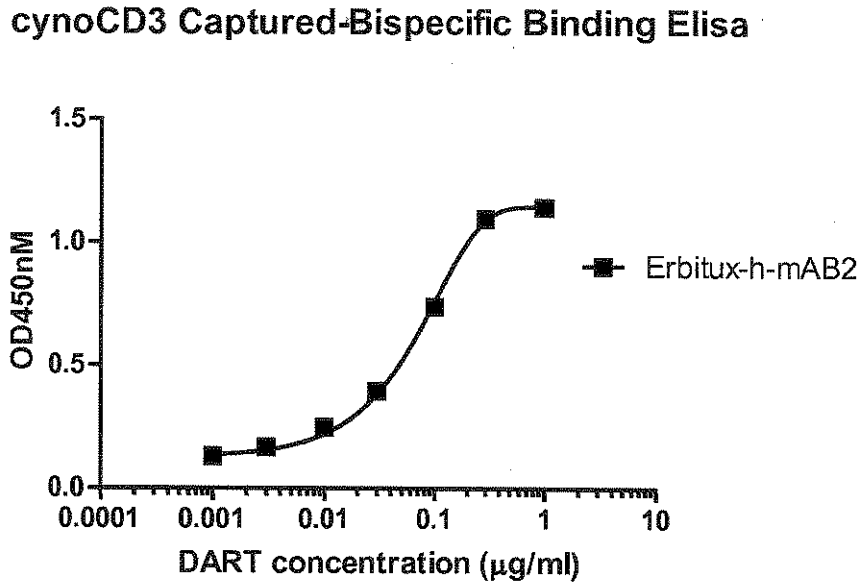



Figure 10C

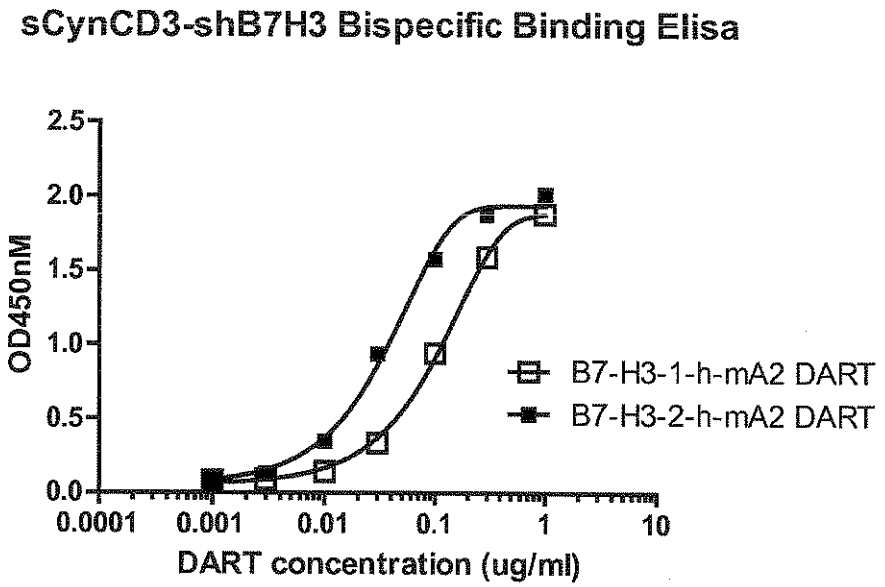



Figure 10D

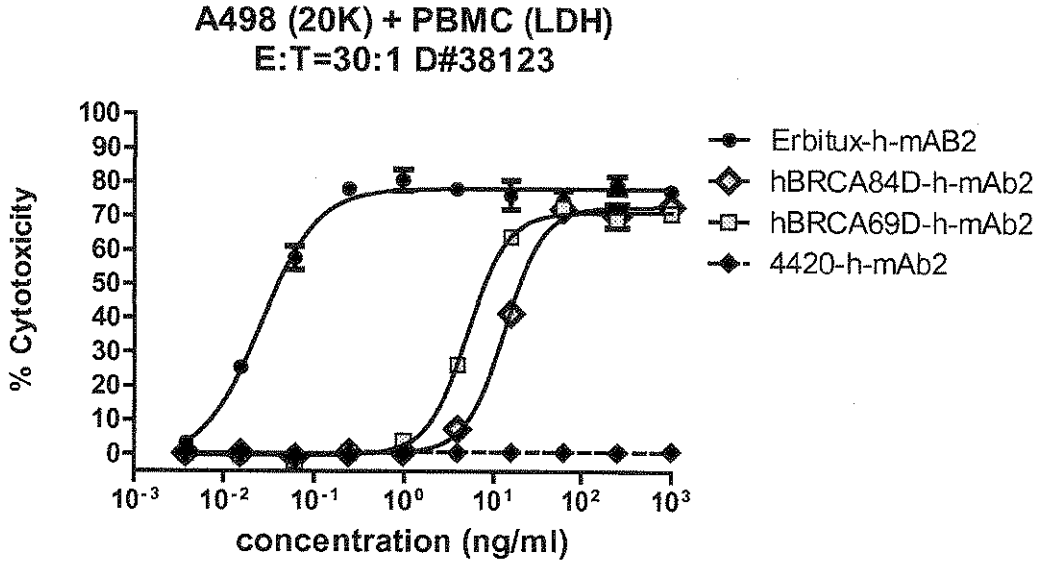



Figure 11A

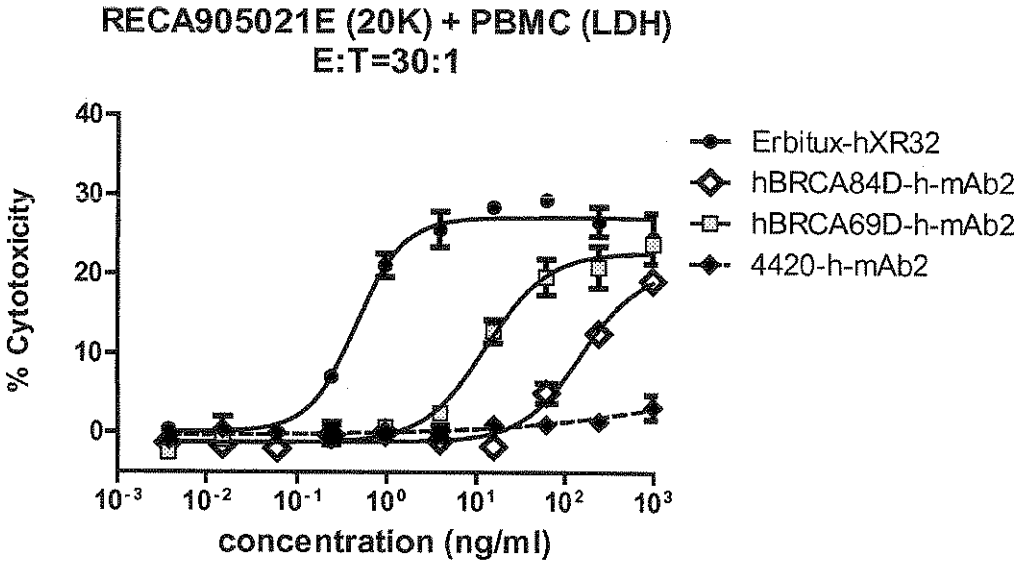



Figure 11B

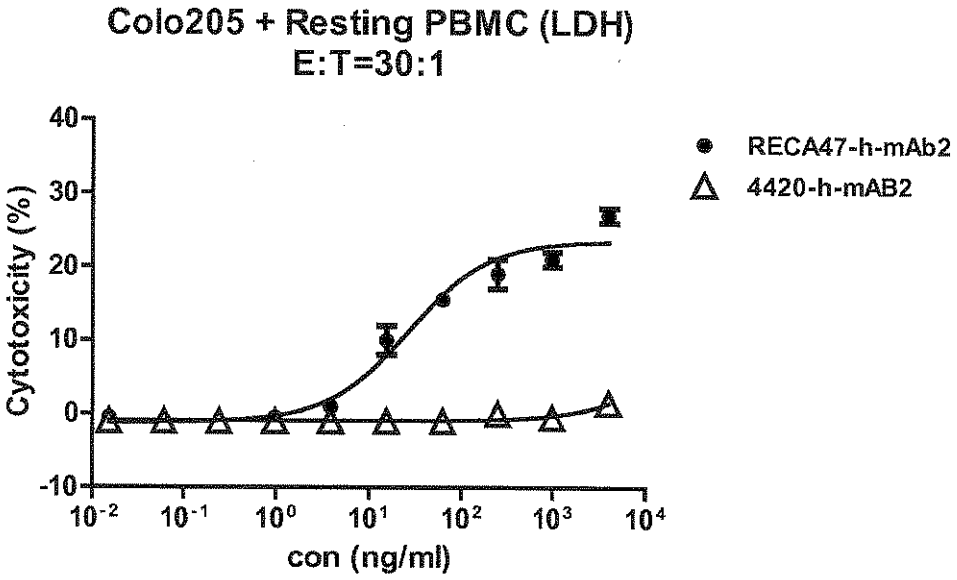



Figure 12A

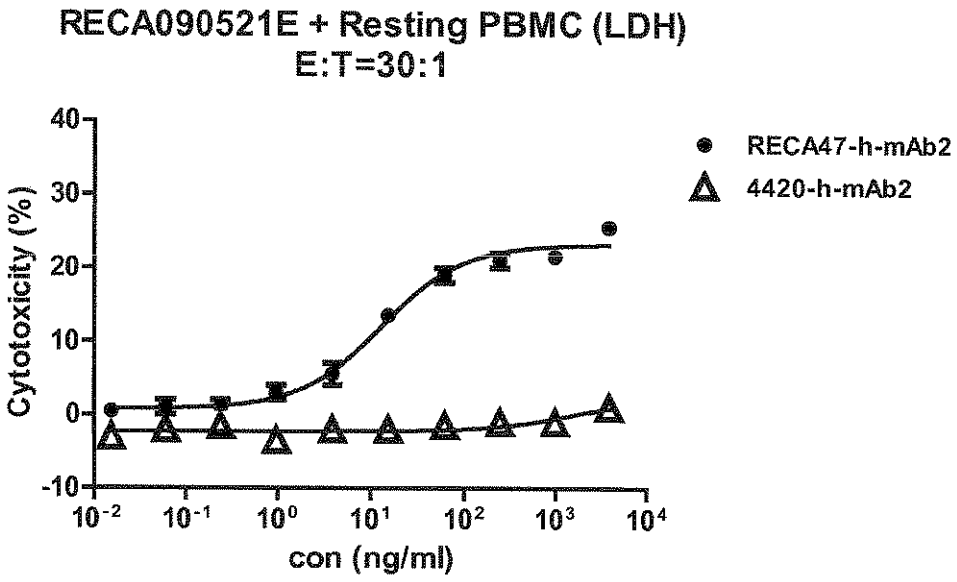



Figure 12B

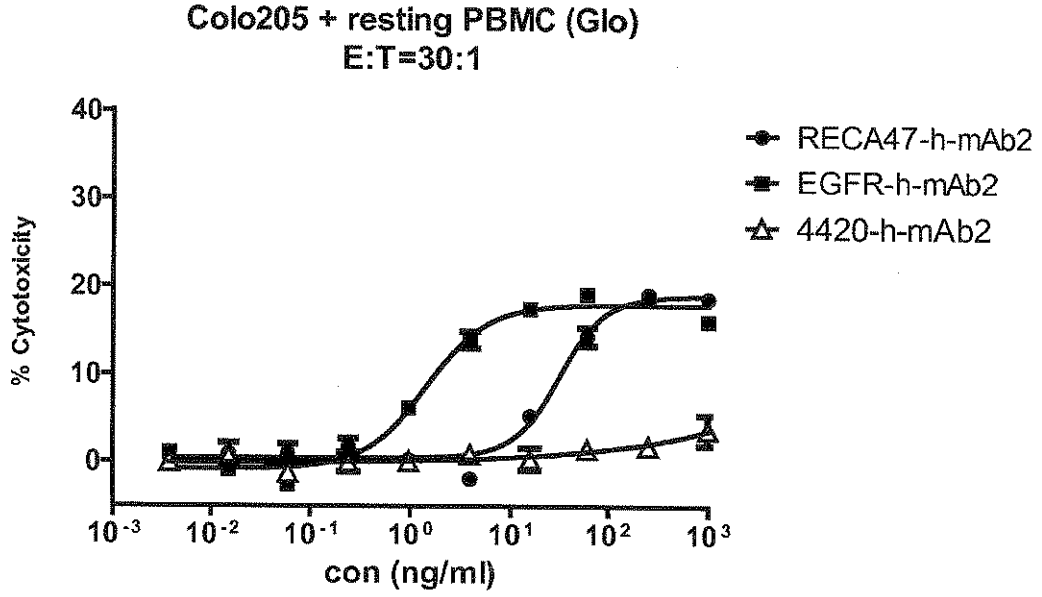



Figure 12C

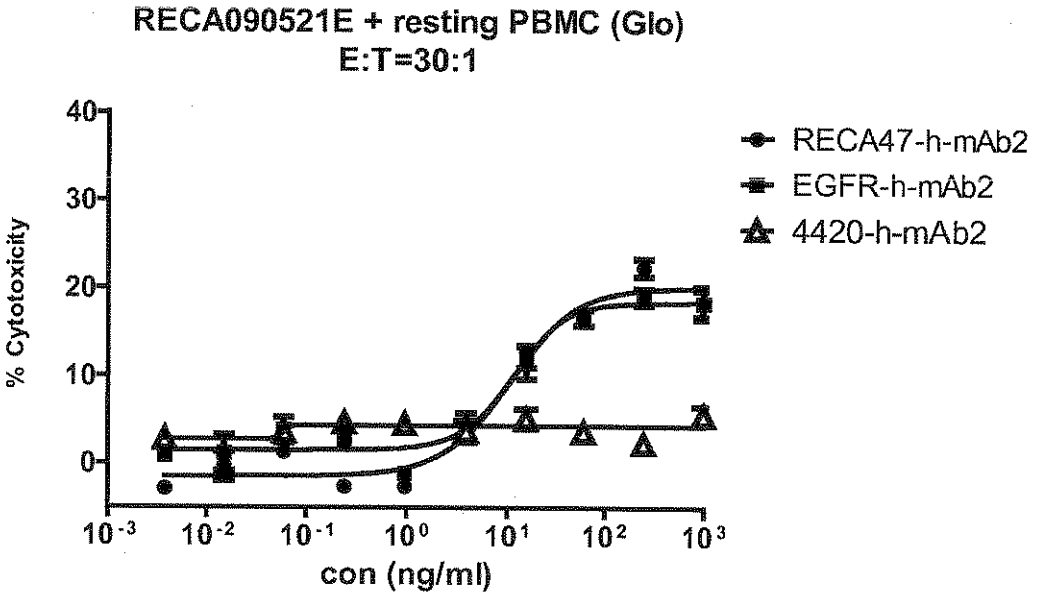



Figure 12D

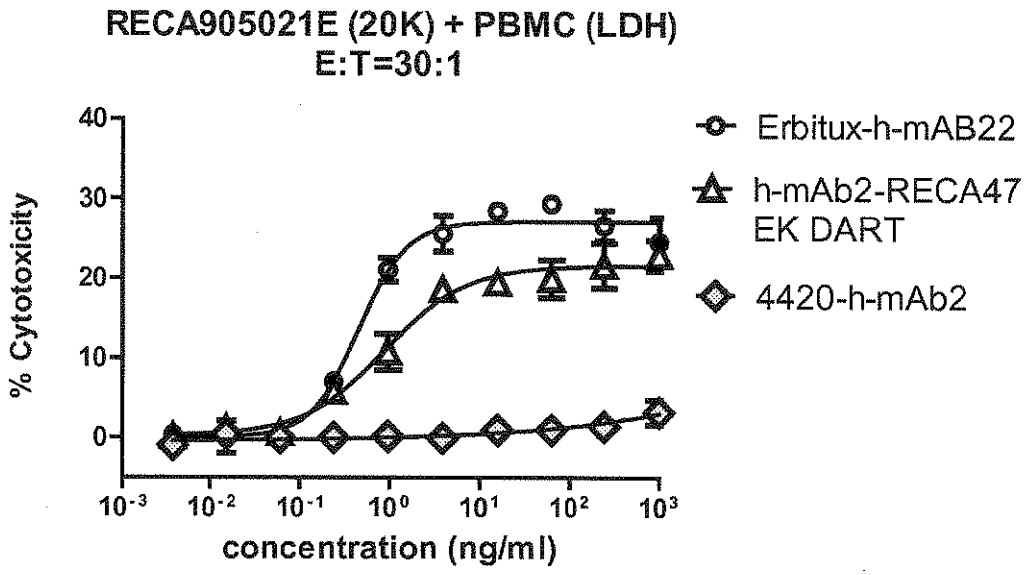

RECA905021E (20K) + PBMC (LDH)
E:T=30:1
% Cytotoxicity
40
30
20
10
0
$10^{-3}$
$10^{-2}$
$10^{-1}$
$10^{0}$
$10^{1}$
$10^{2}$
$10^{3}$
concentration (ng/ml)
Erbitux-h-mAB22
h-mAb2-RECA47 EK DART
4420-h-mAb2

**Figure 12E**

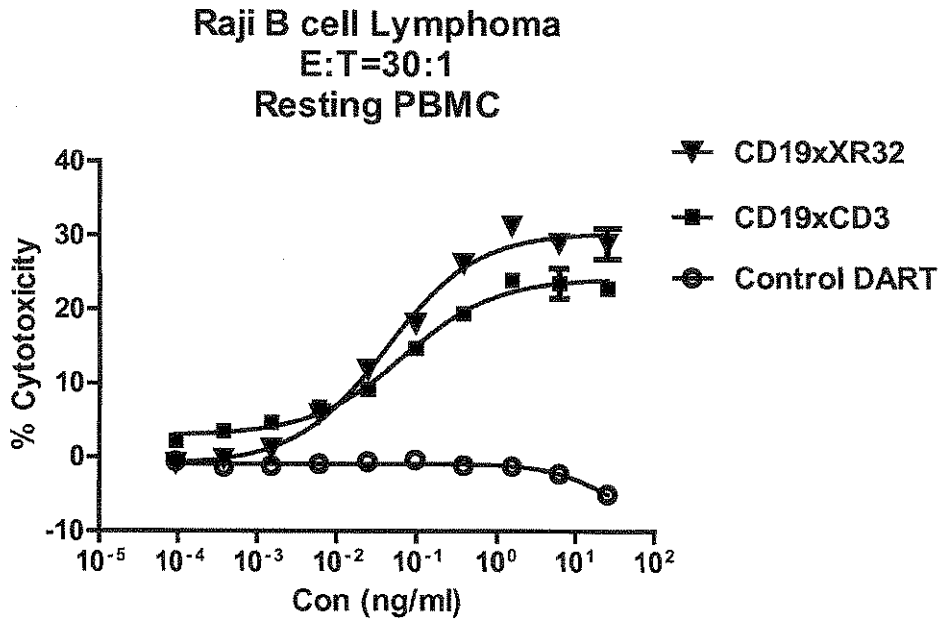



Figure 13A

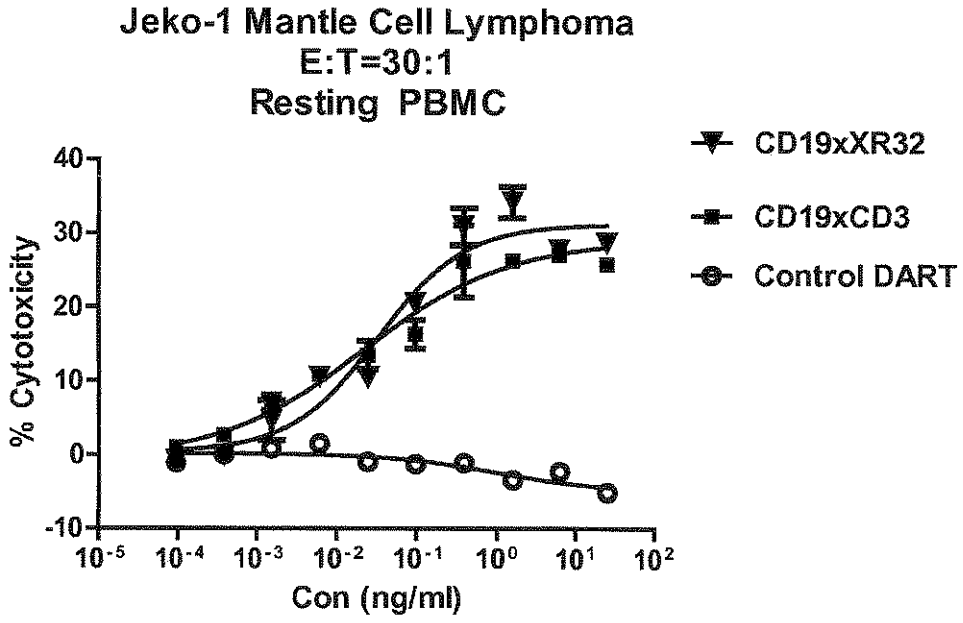



Figure 13B

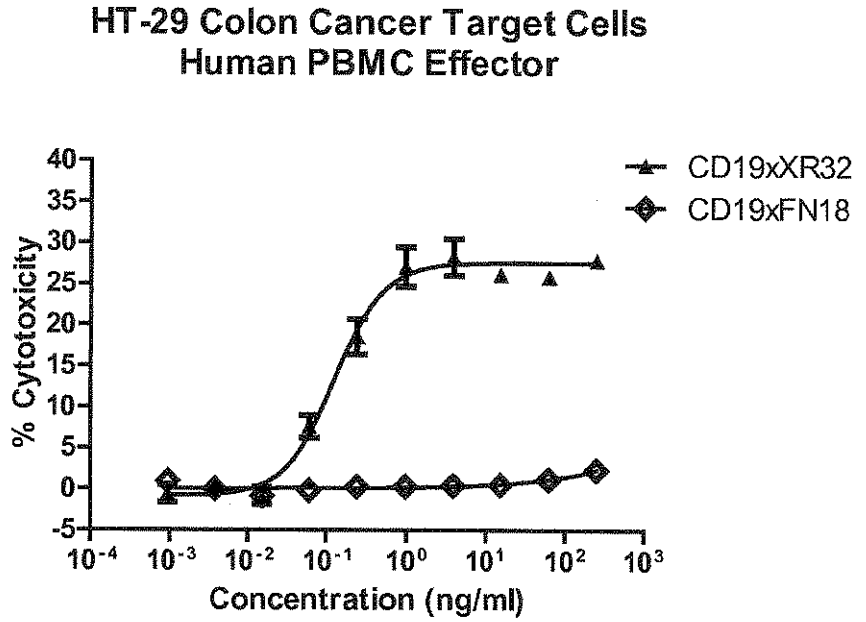



Figure 14A

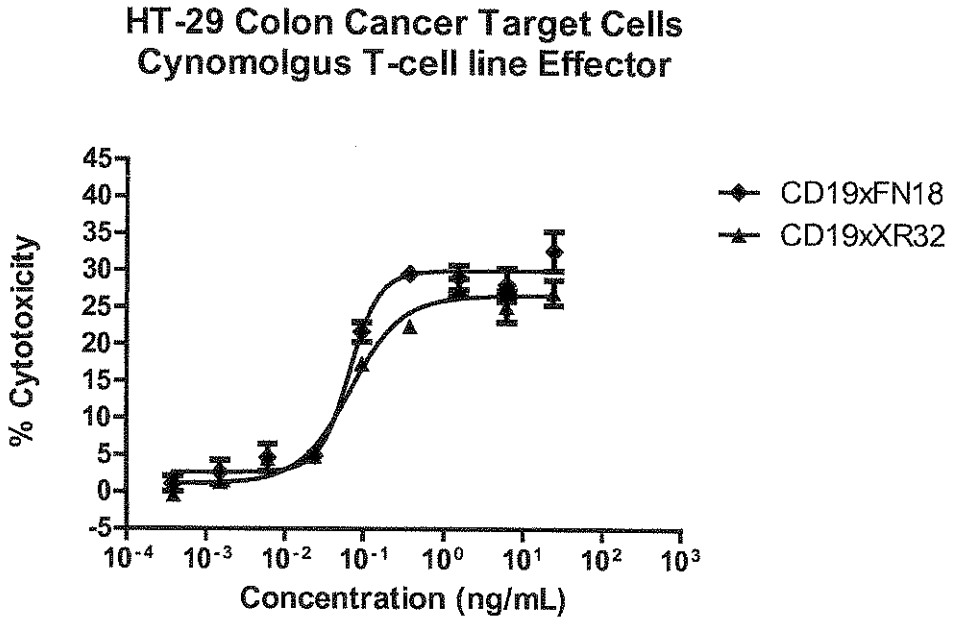



Figure 14B

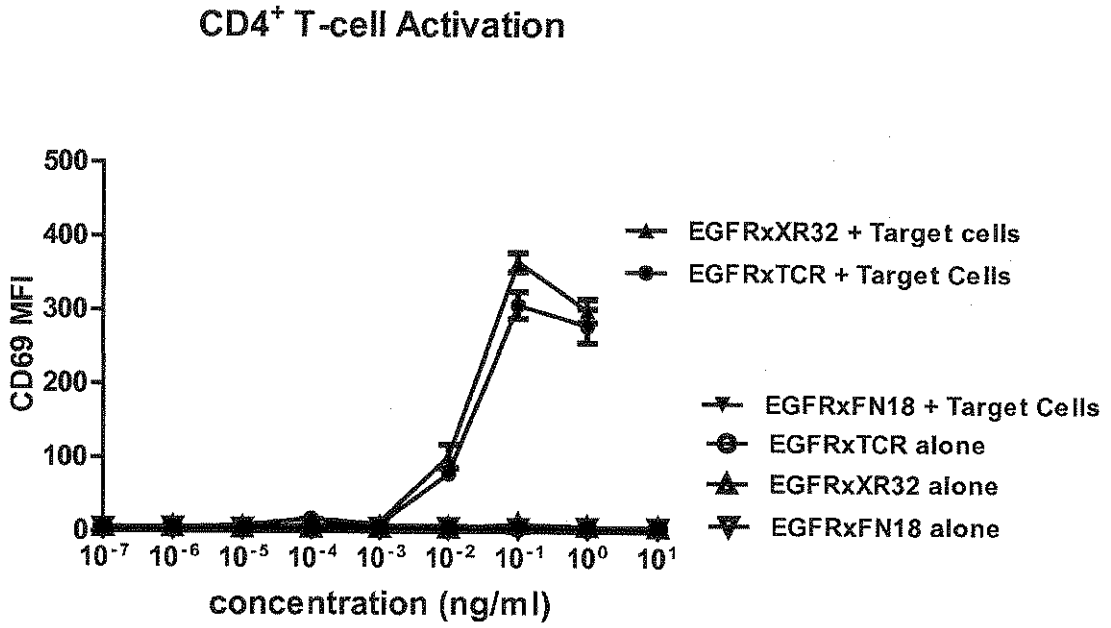



Figure 15A

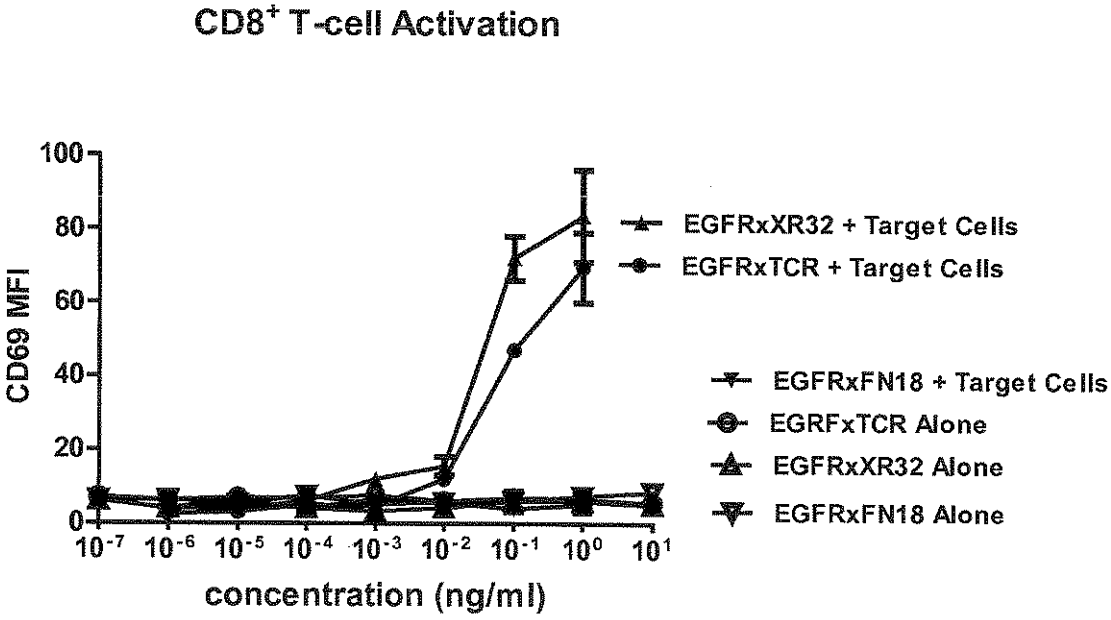



Figure 15B

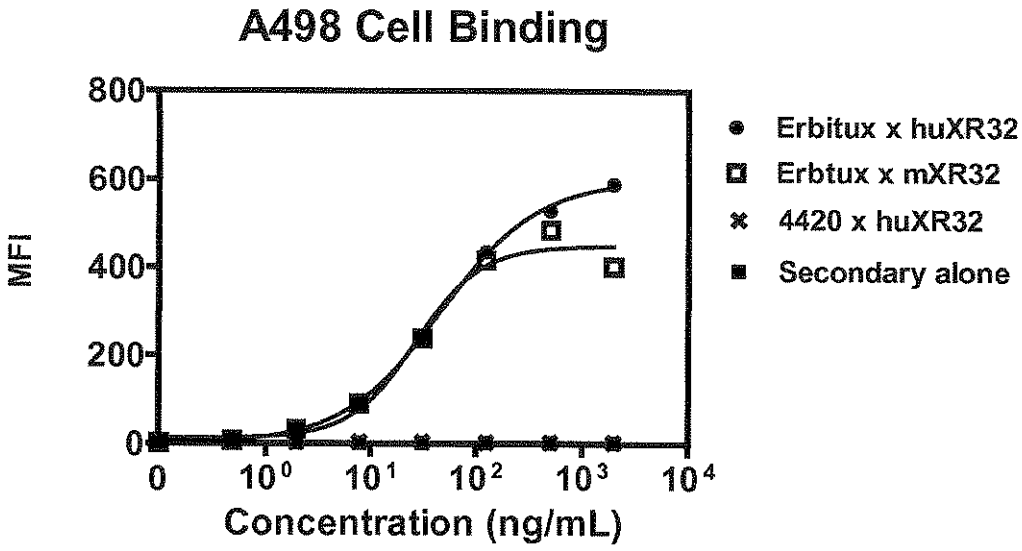



Figure 16A

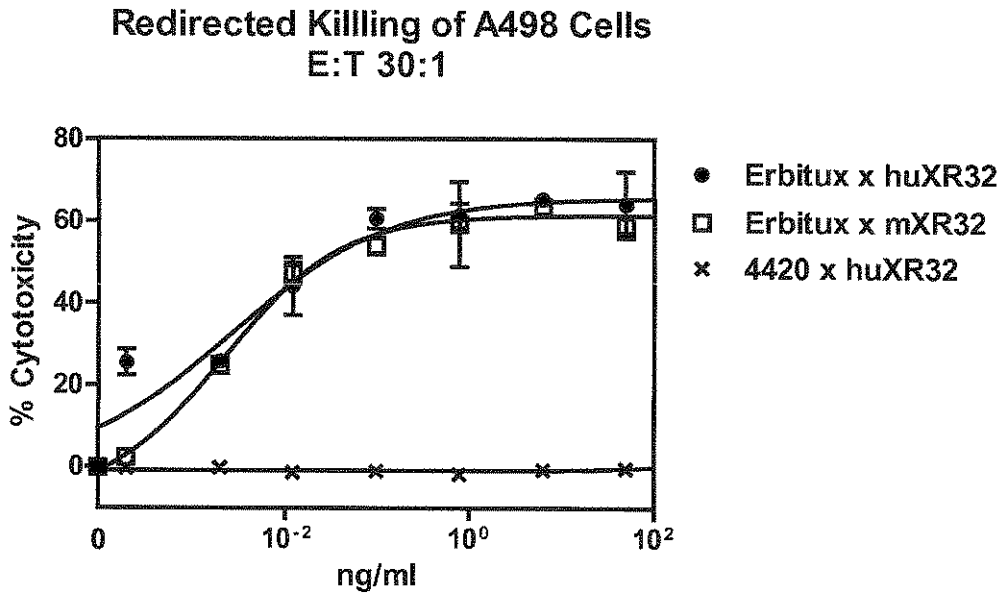



Figure 16B

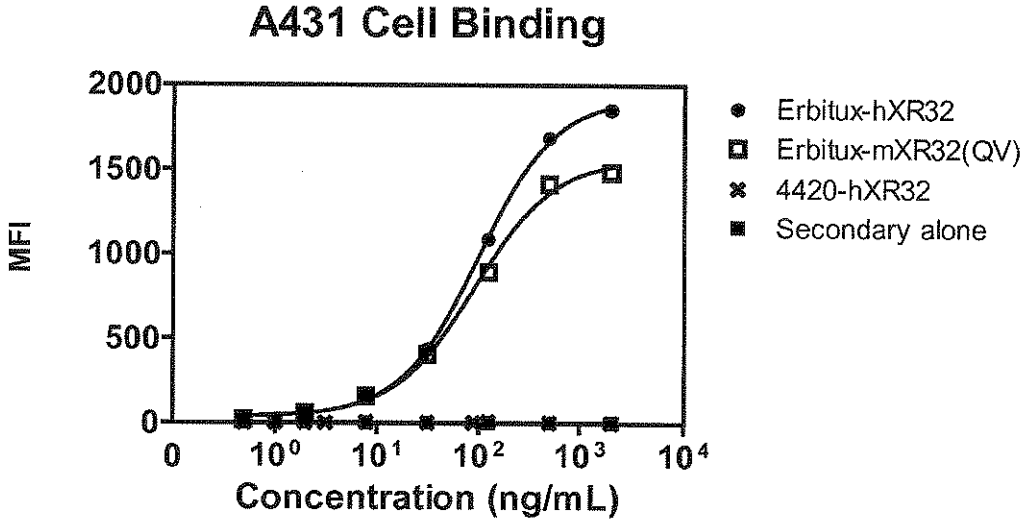



Figure 16C

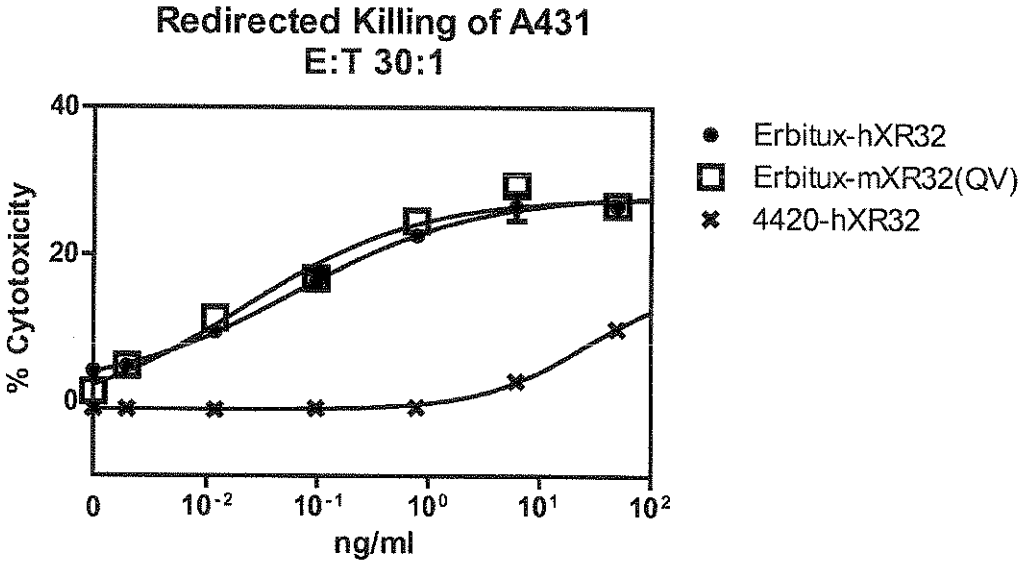



Figure 16D