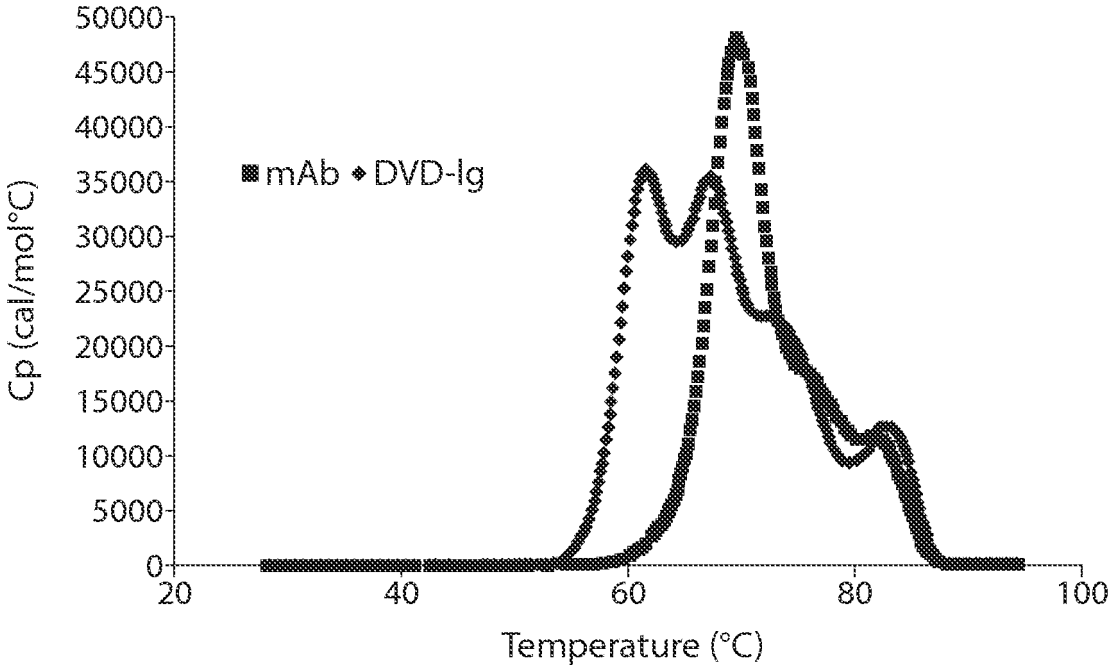

50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
Cp (cal/mol°C)
mAb
DVD-Ig
20
40
60
80
100
Temperature (°C)

Fig. 1

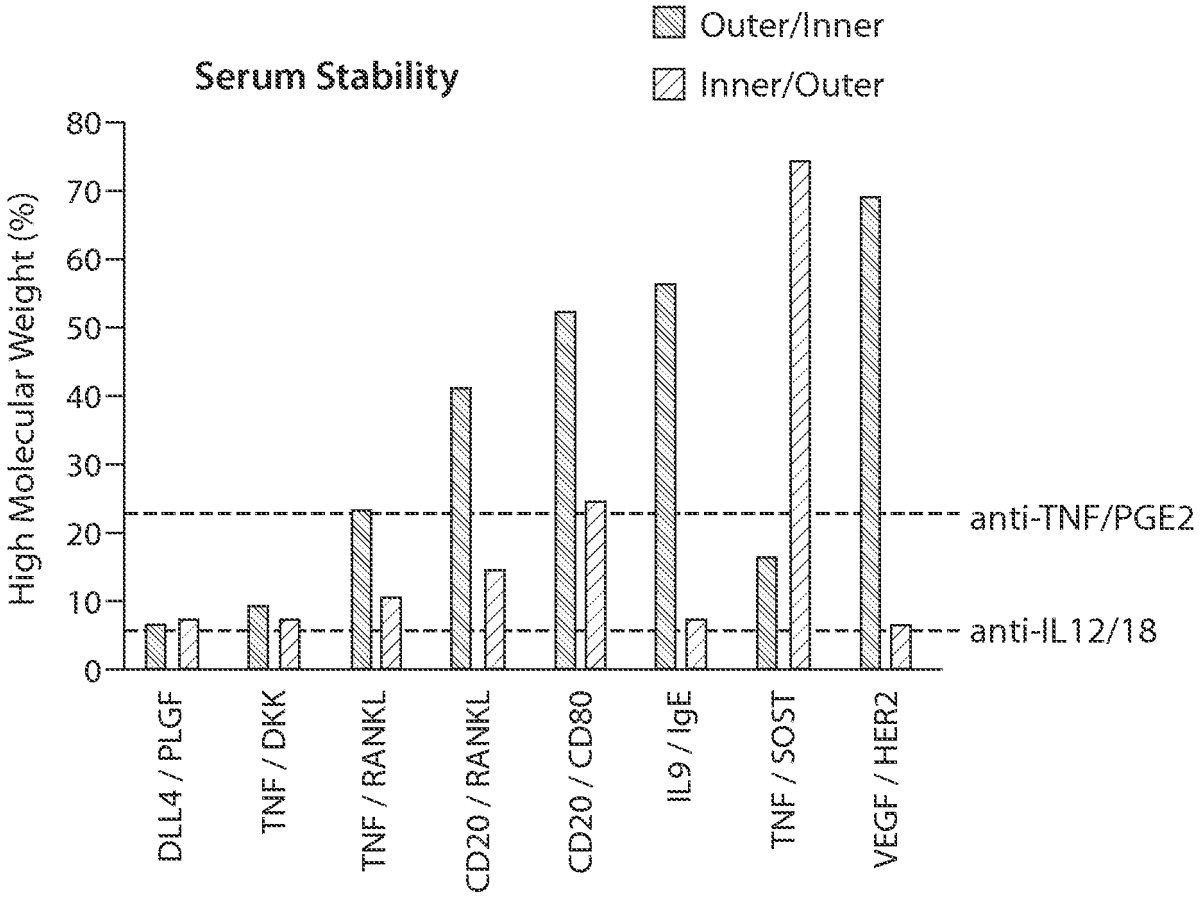

Serum Stability
Outer/Inner
Inner/Outer
High Molecular Weight (%)
80
70
60
50
40
30
20
10
0
anti-TNF/PGE2
anti-IL12/18
DLL4 / PLGF
TNF / DKK
TNF / RANKL
CD20 / RANKL
CD20 / CD80
IL9 / IgE
TNF / SOST
VEGF / HER2

Figure 2A

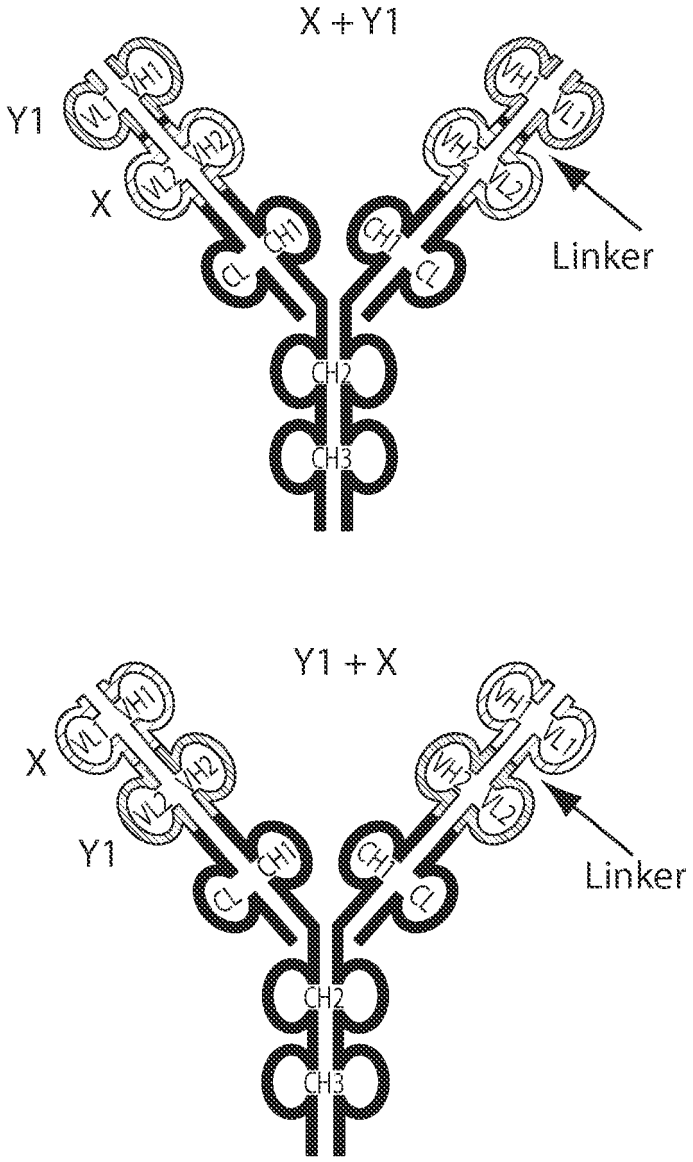

Domain orientation concept
X + Y1
Y1
X
Linker
CH2
CH3
Y1 + X
X
Y1
Linker
CH2
CH3

Figure 2B

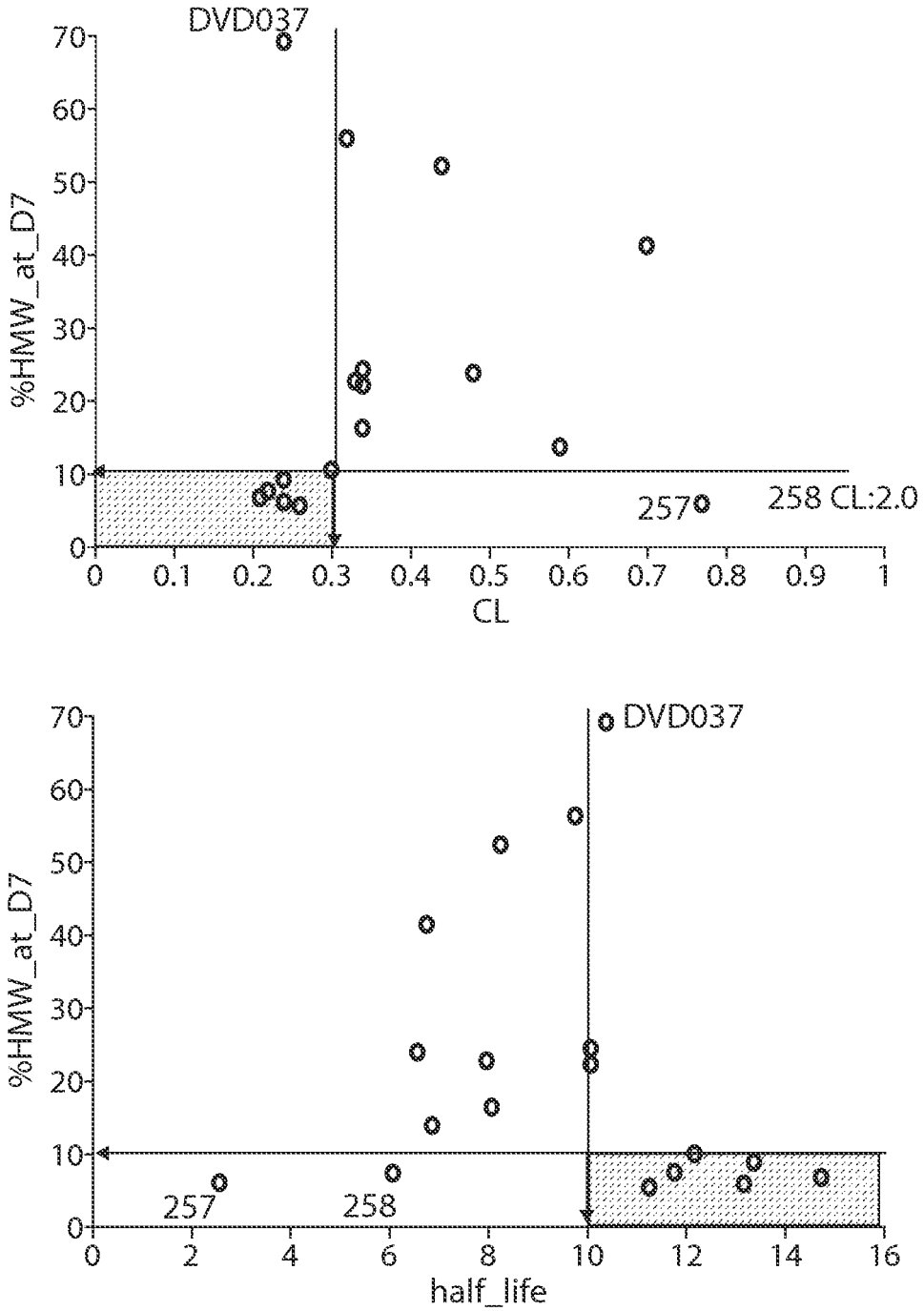


Figure 3

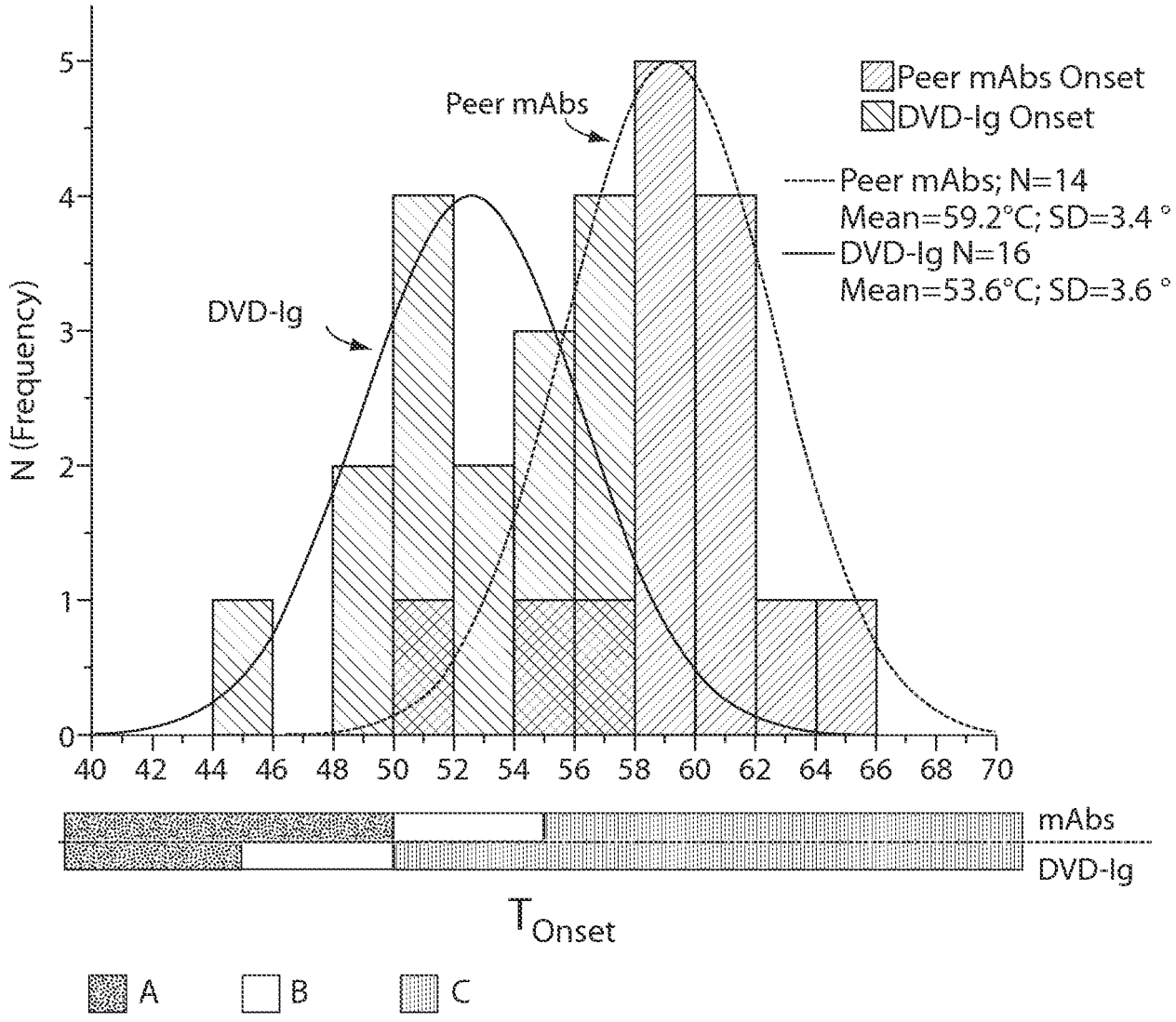

Peer mAbs Onset
DVD-Ig Onset
Peer mAbs
DVD-Ig
Peer mAbs; N=14
Mean=59.2°C; SD=3.4 °
DVD-Ig N=16
Mean=53.6°C; SD=3.6 °
N (Frequency)
0
1
2
3
4
5
40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70
mAbs
DVD-Ig
T Onset
A
B
C

Fig. 4

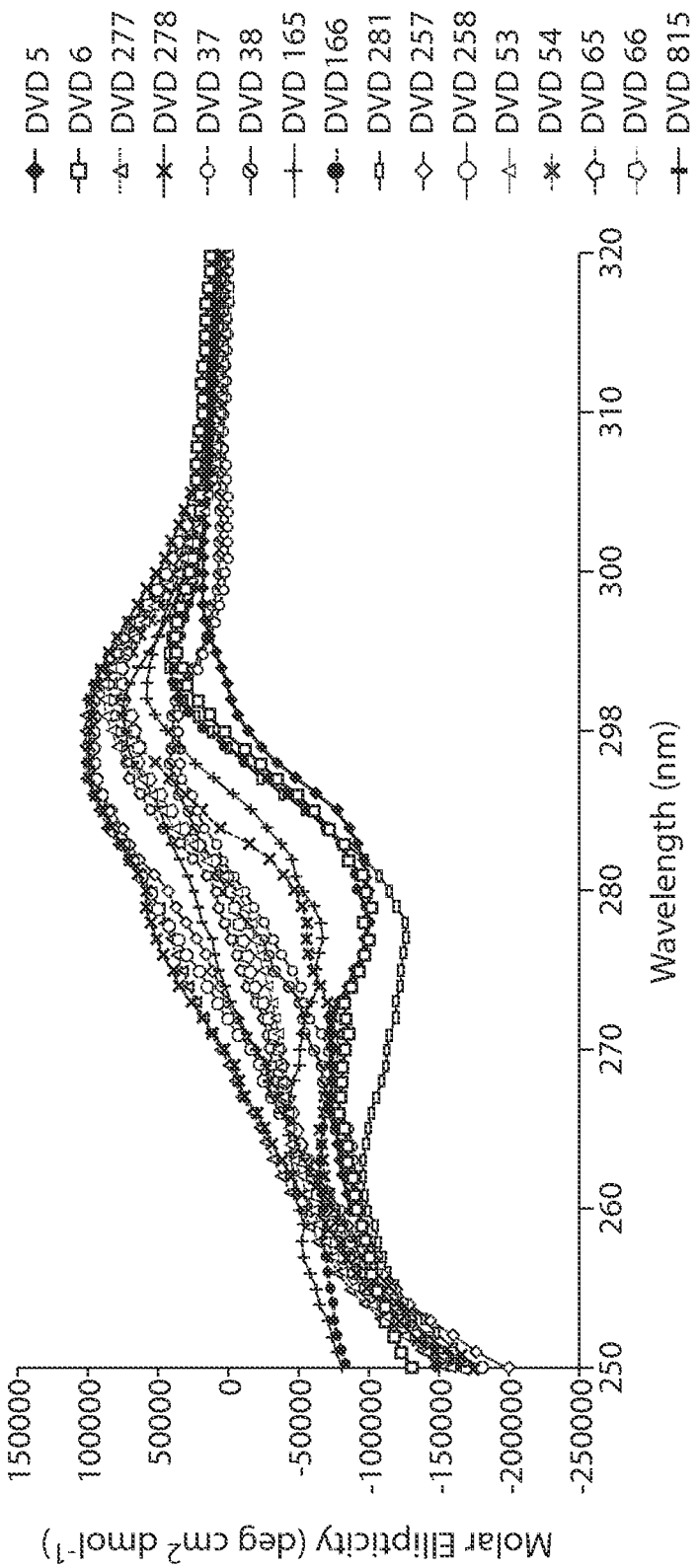

DVD 5
DVD 6
DVD 277
DVD 278
DVD 37
DVD 38
DVD 165
DVD166
DVD 281
DVD 257
DVD 258
DVD 53
DVD 54
DVD 65
DVD 66
DVD 815
150000
100000
50000
0
-50000
-100000
-150000
-200000
-250000
250
260
270
280
298
300
310
320
Wavelength (nm)
Molar Ellipticity (deg cm^2 dmol^{-1})

Fig. 5