

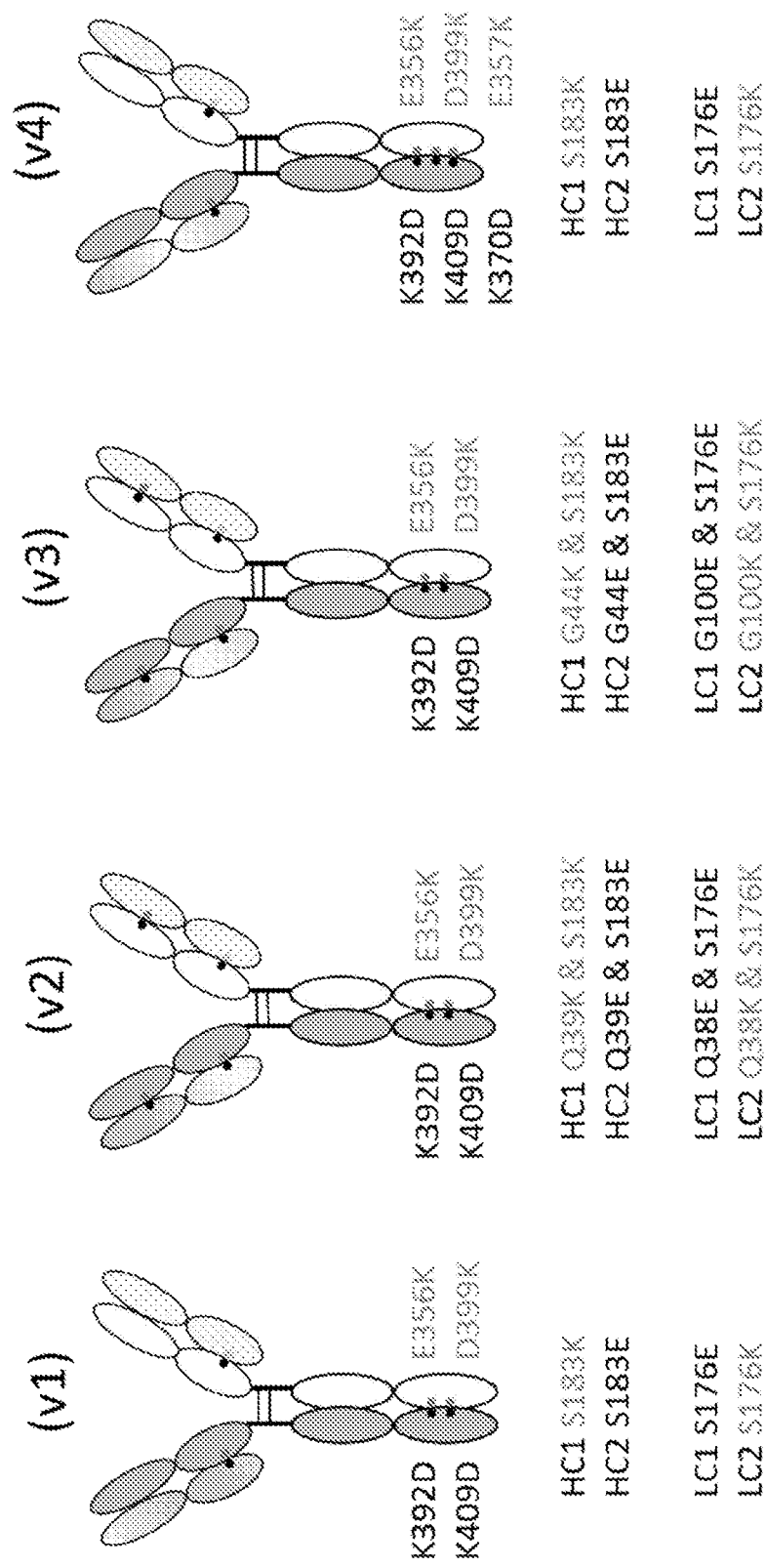


Fig. 1

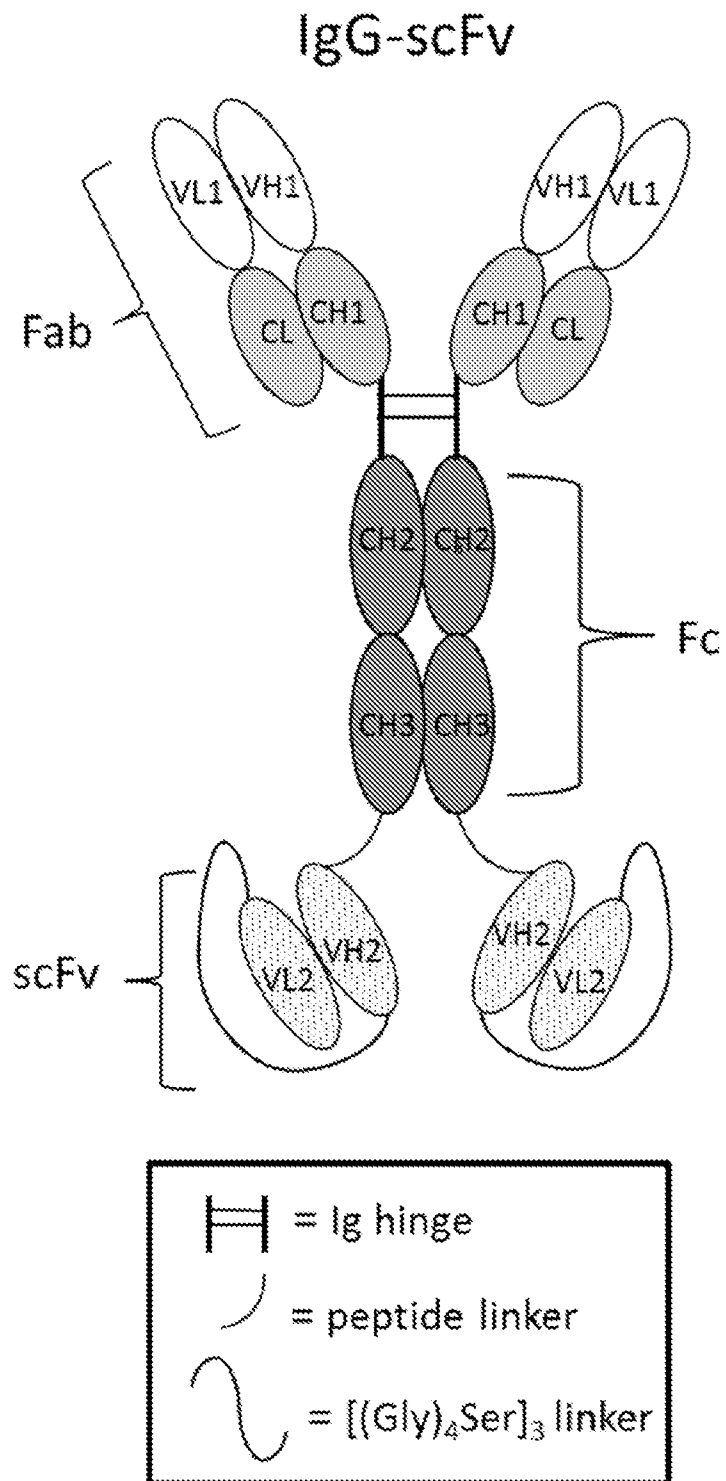


Fig. 2

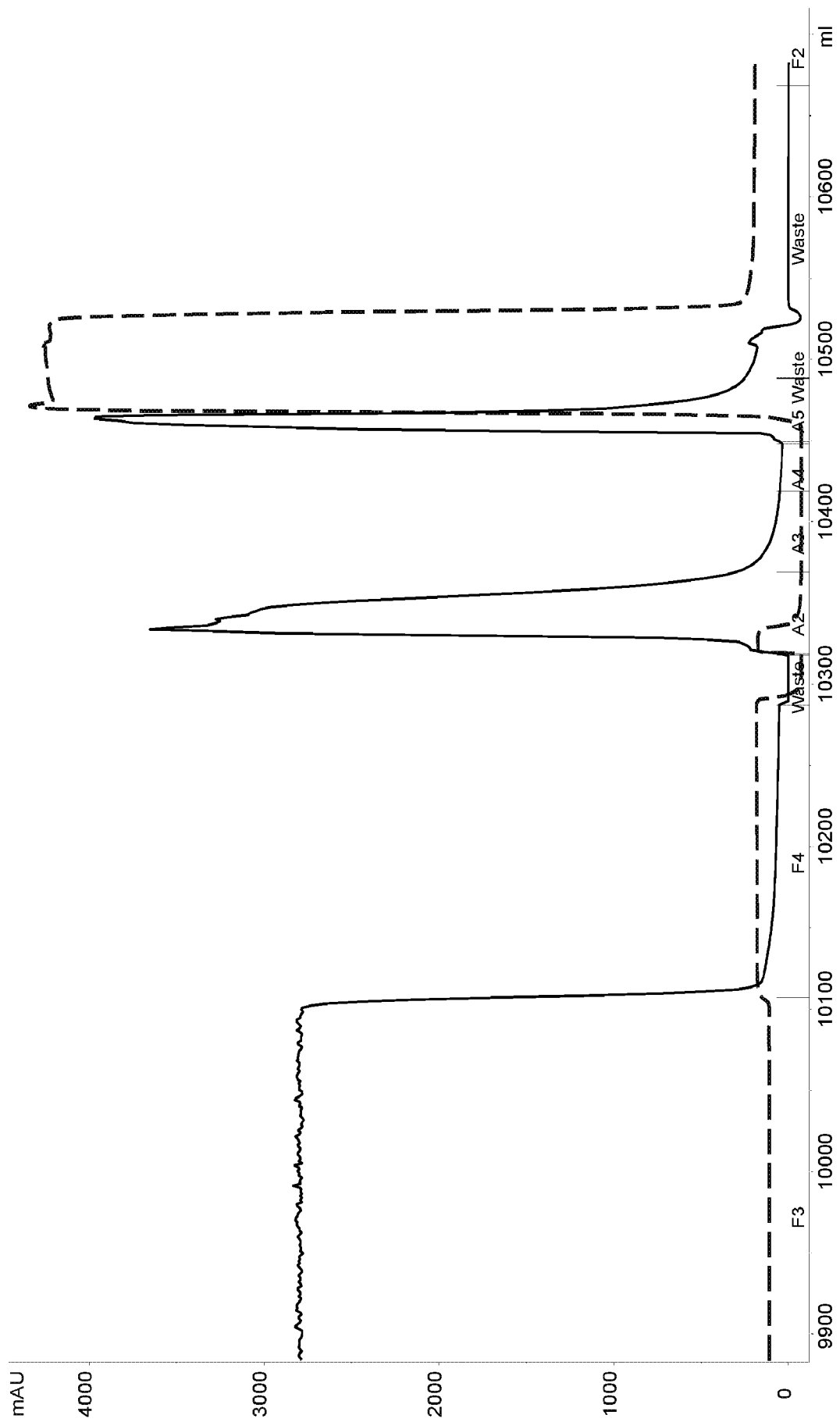


Fig. 3

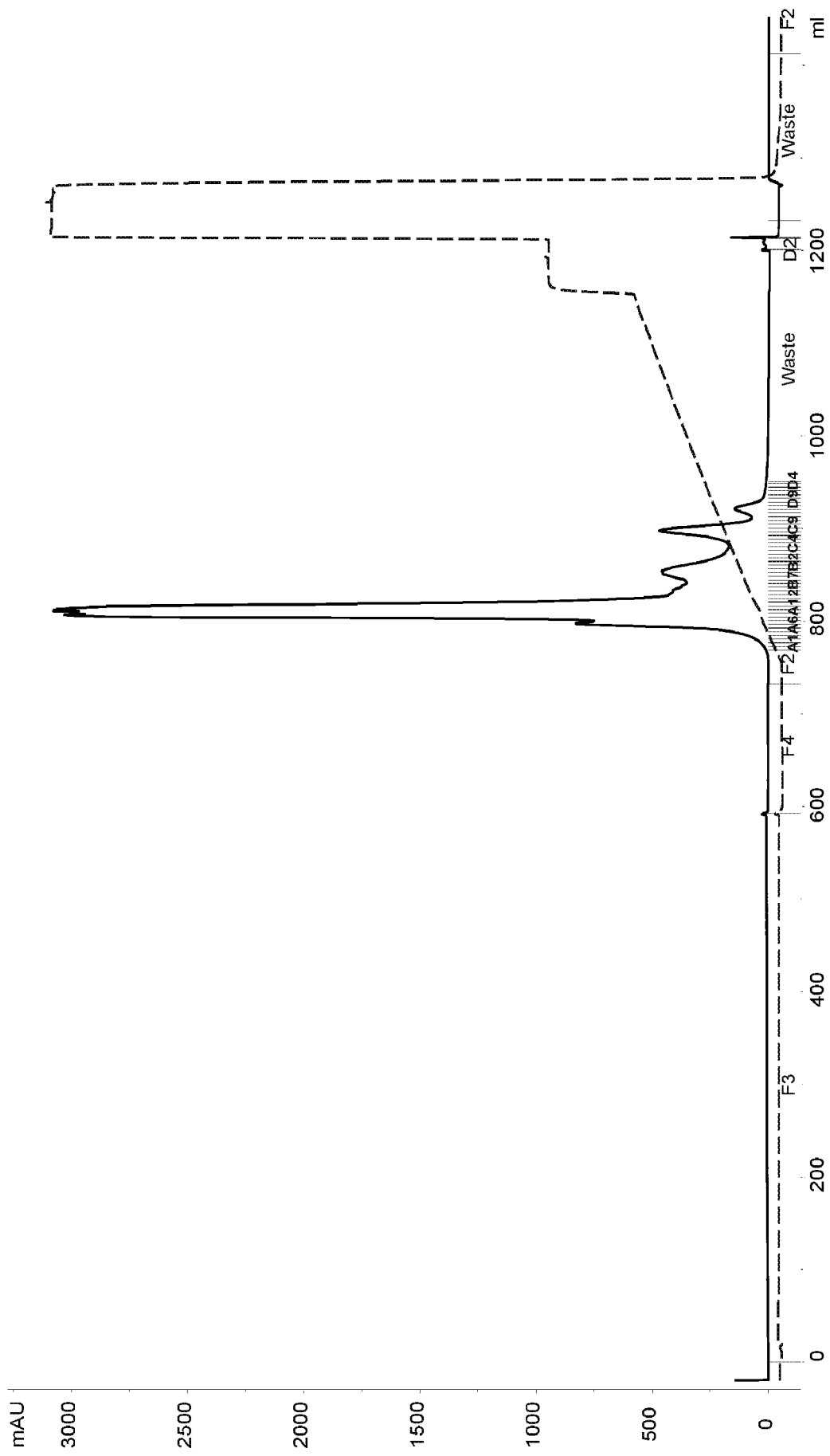


Fig. 4

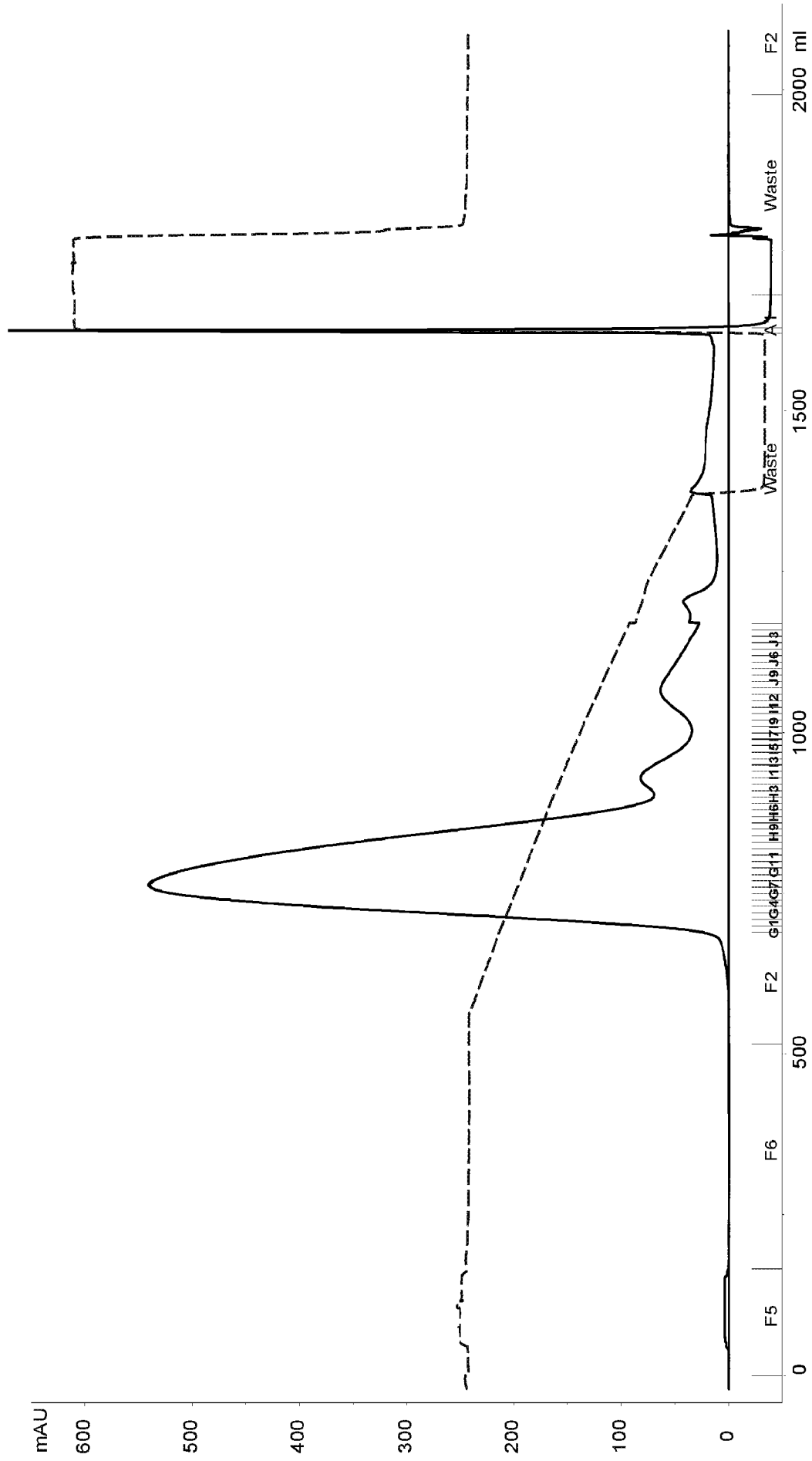


Fig. 5

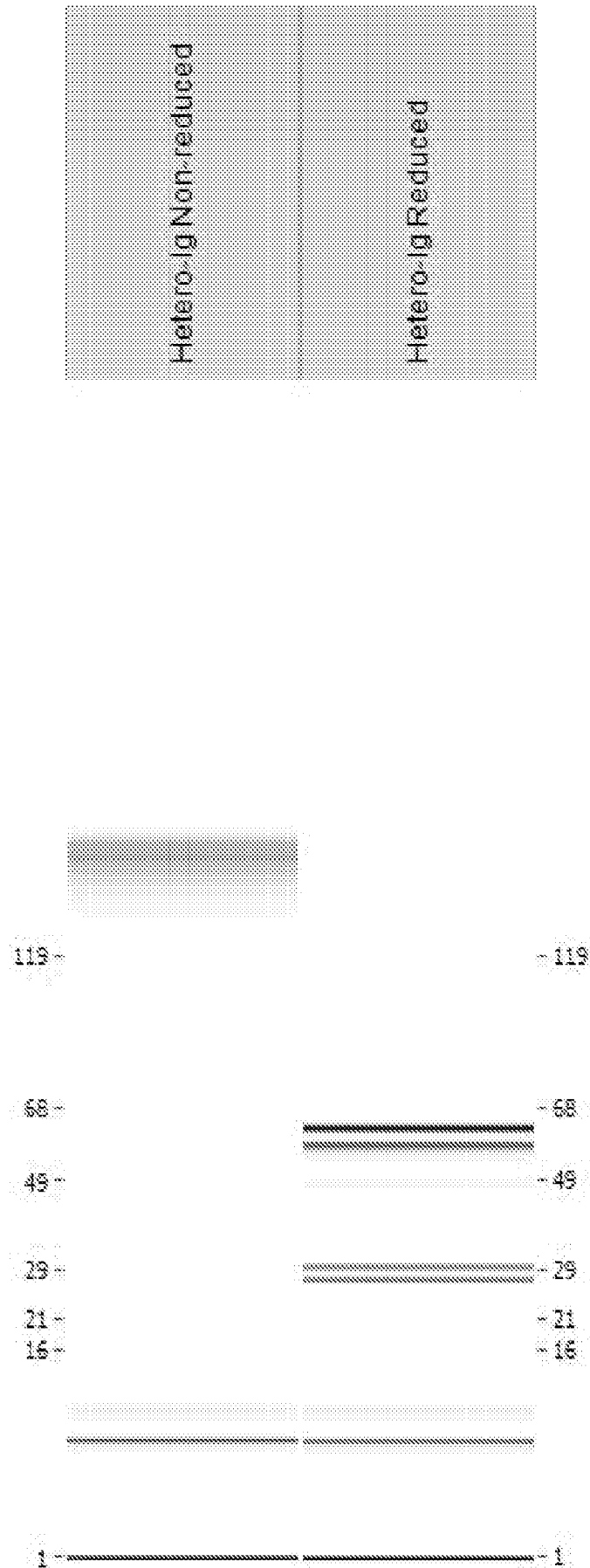


Fig. 6

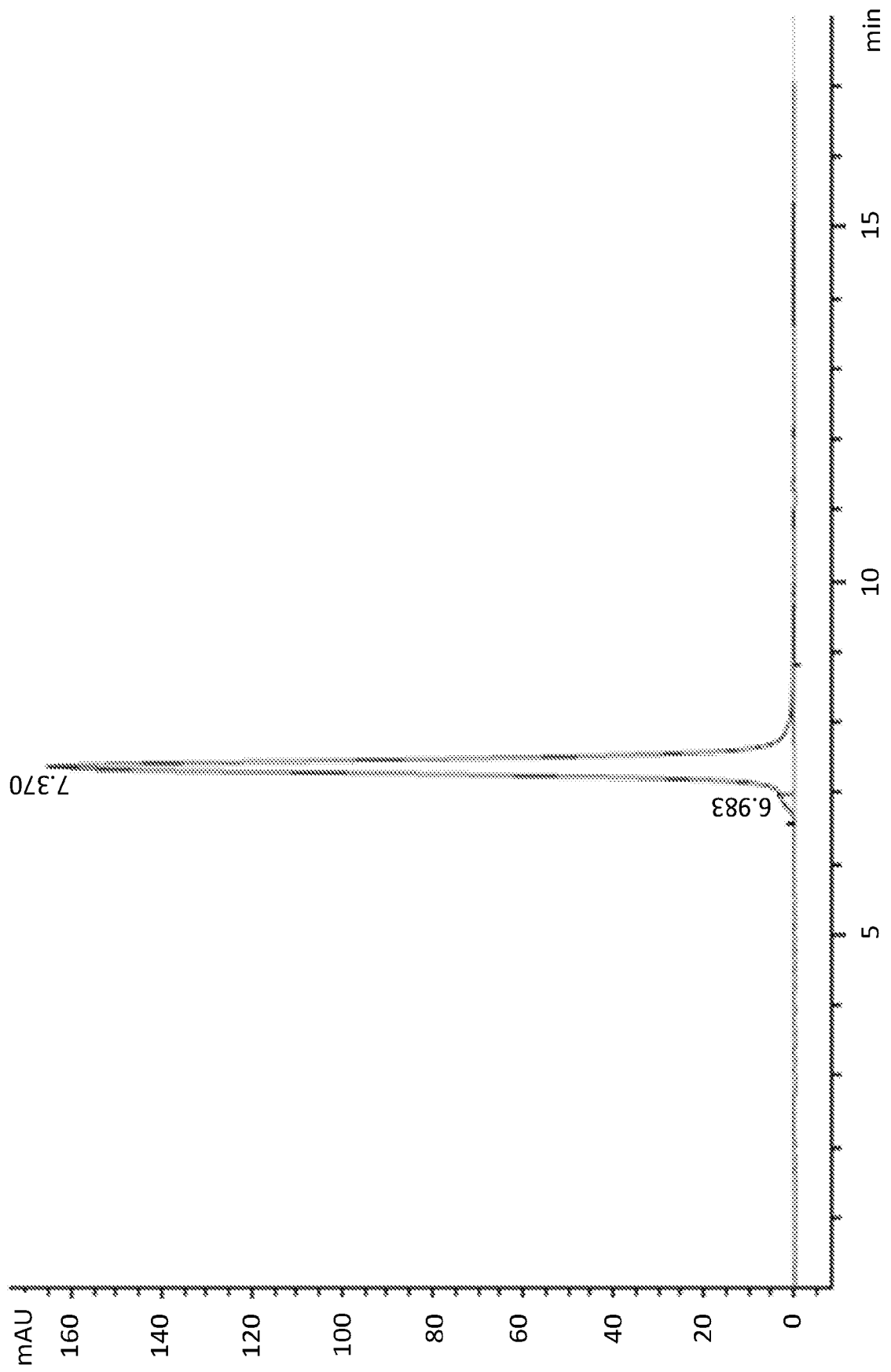


Fig. 7

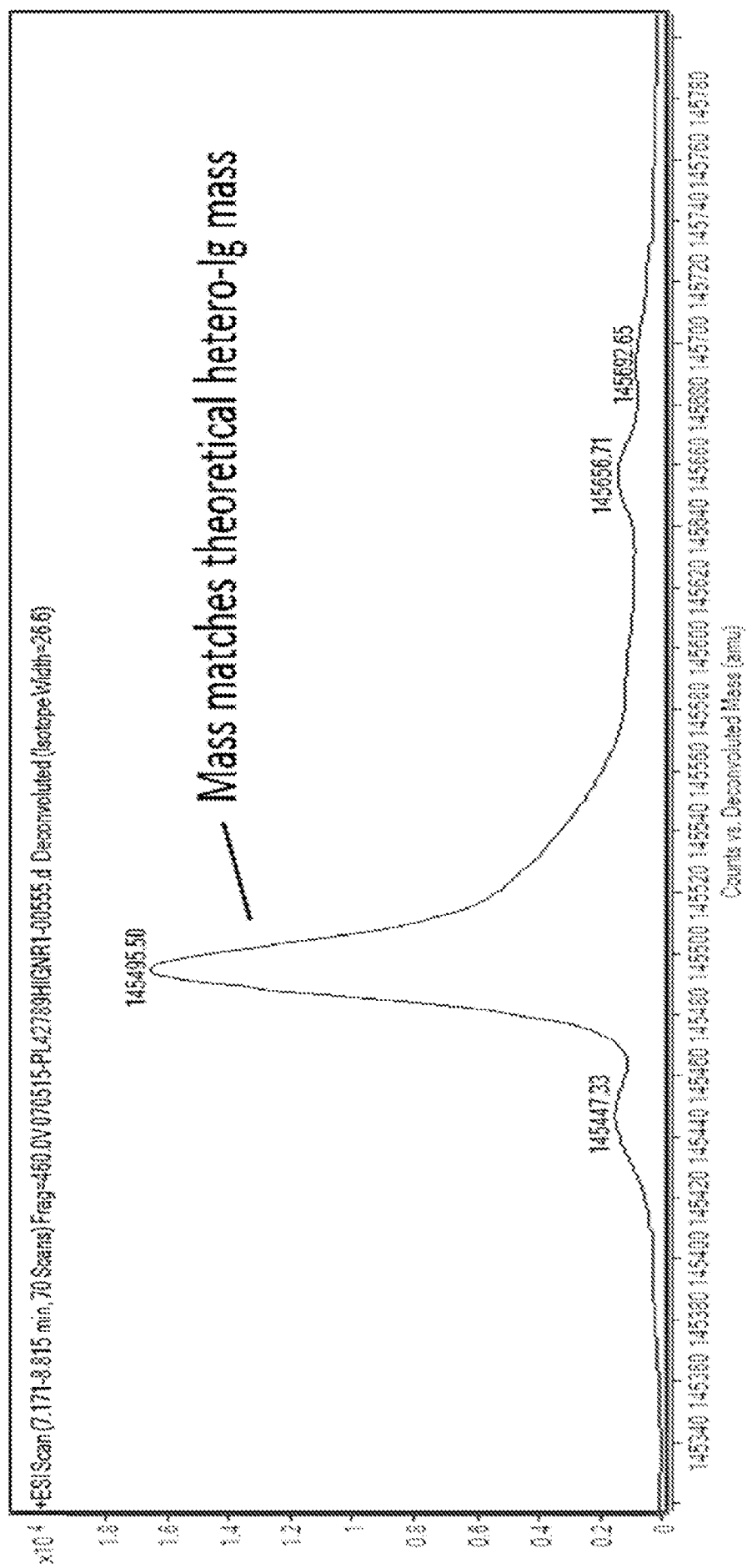


Fig. 8

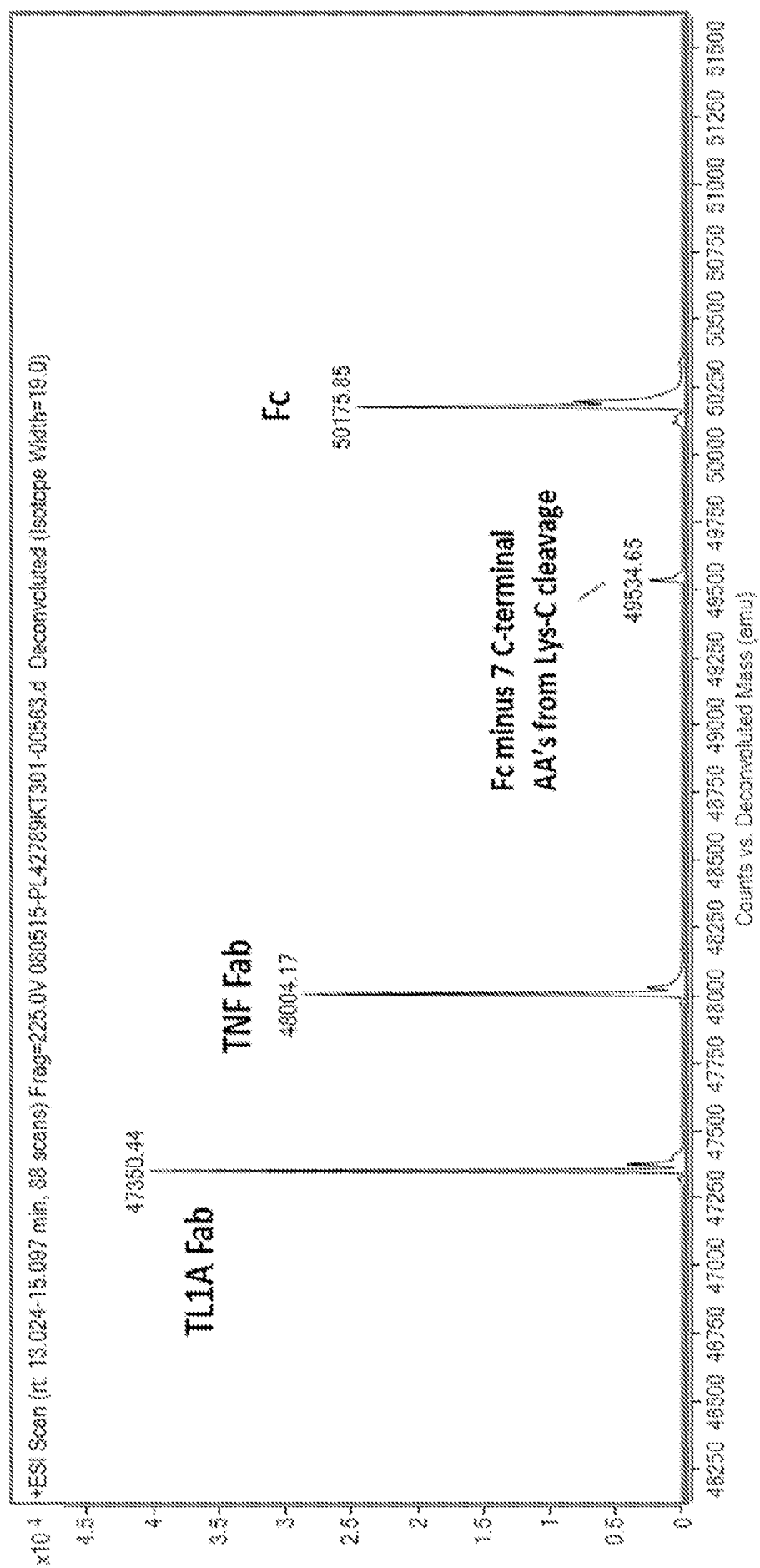


Fig. 9

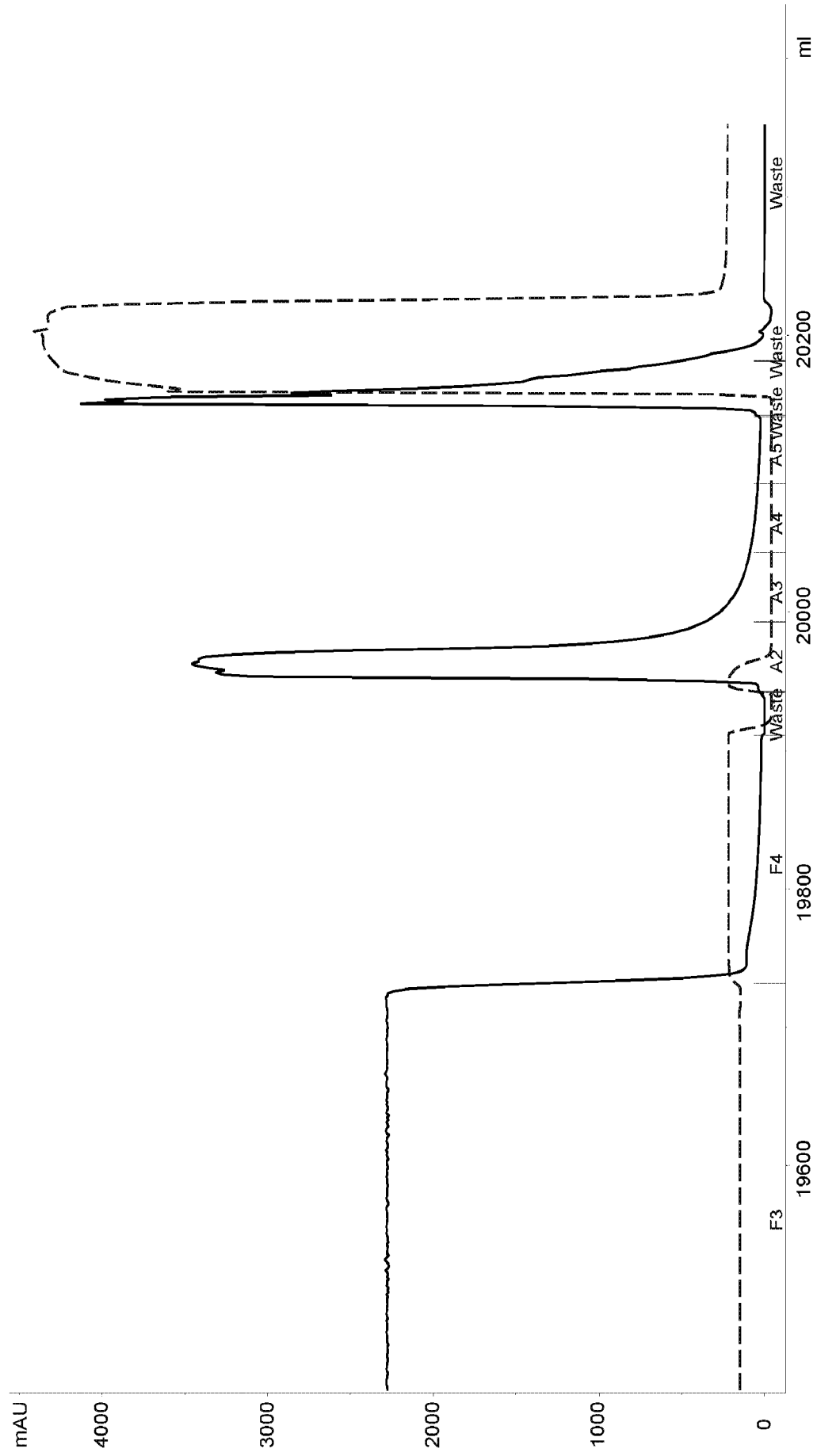


Fig. 10

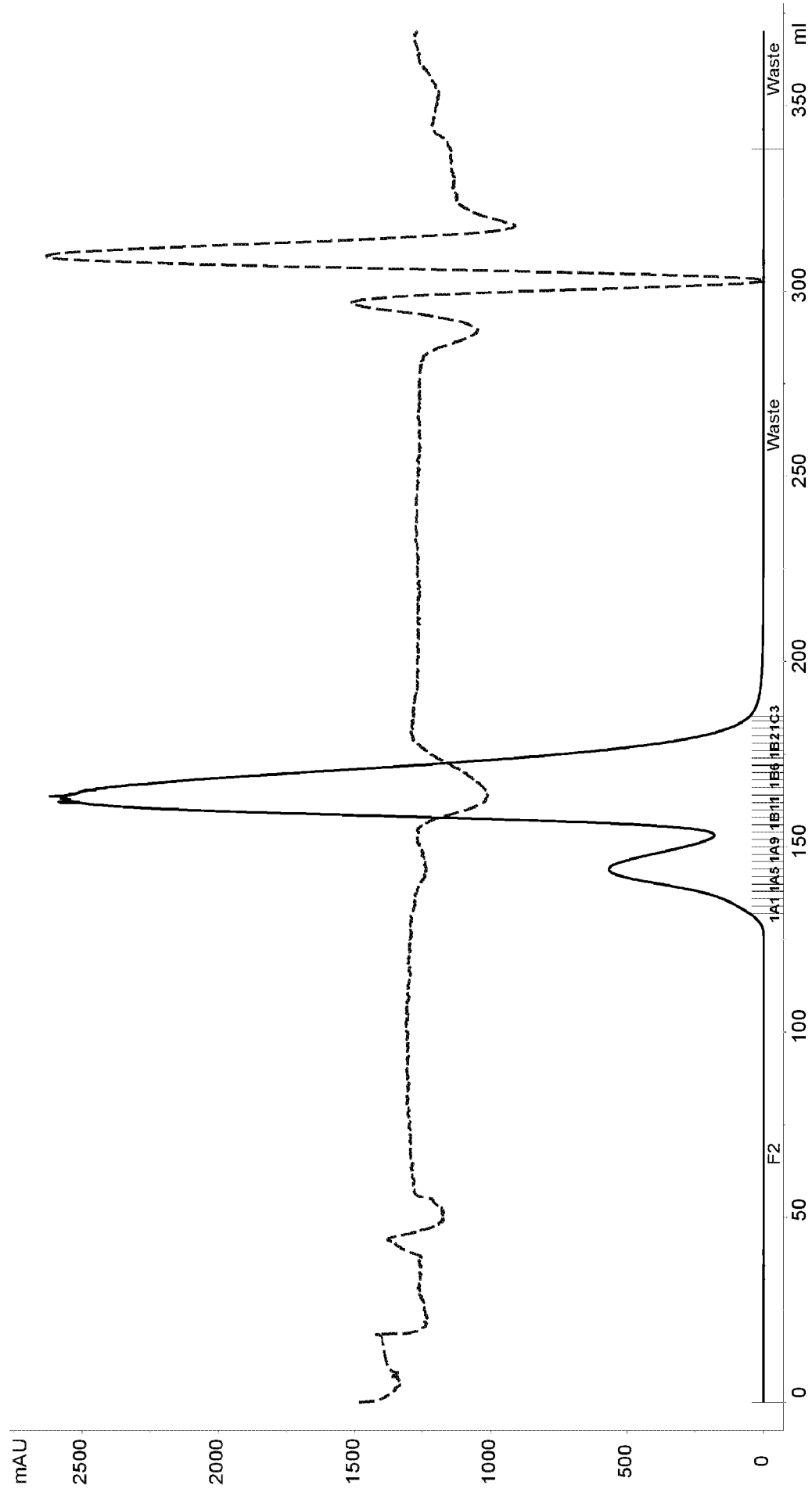


Fig. 11

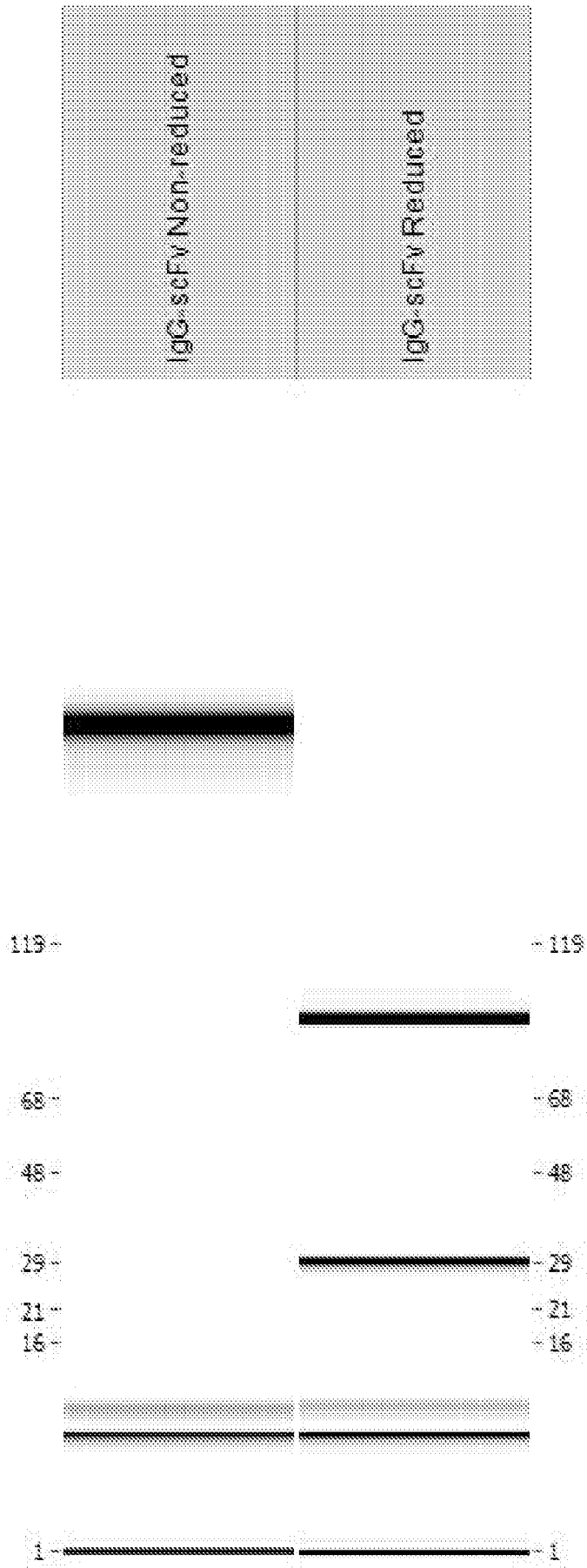


Fig. 12

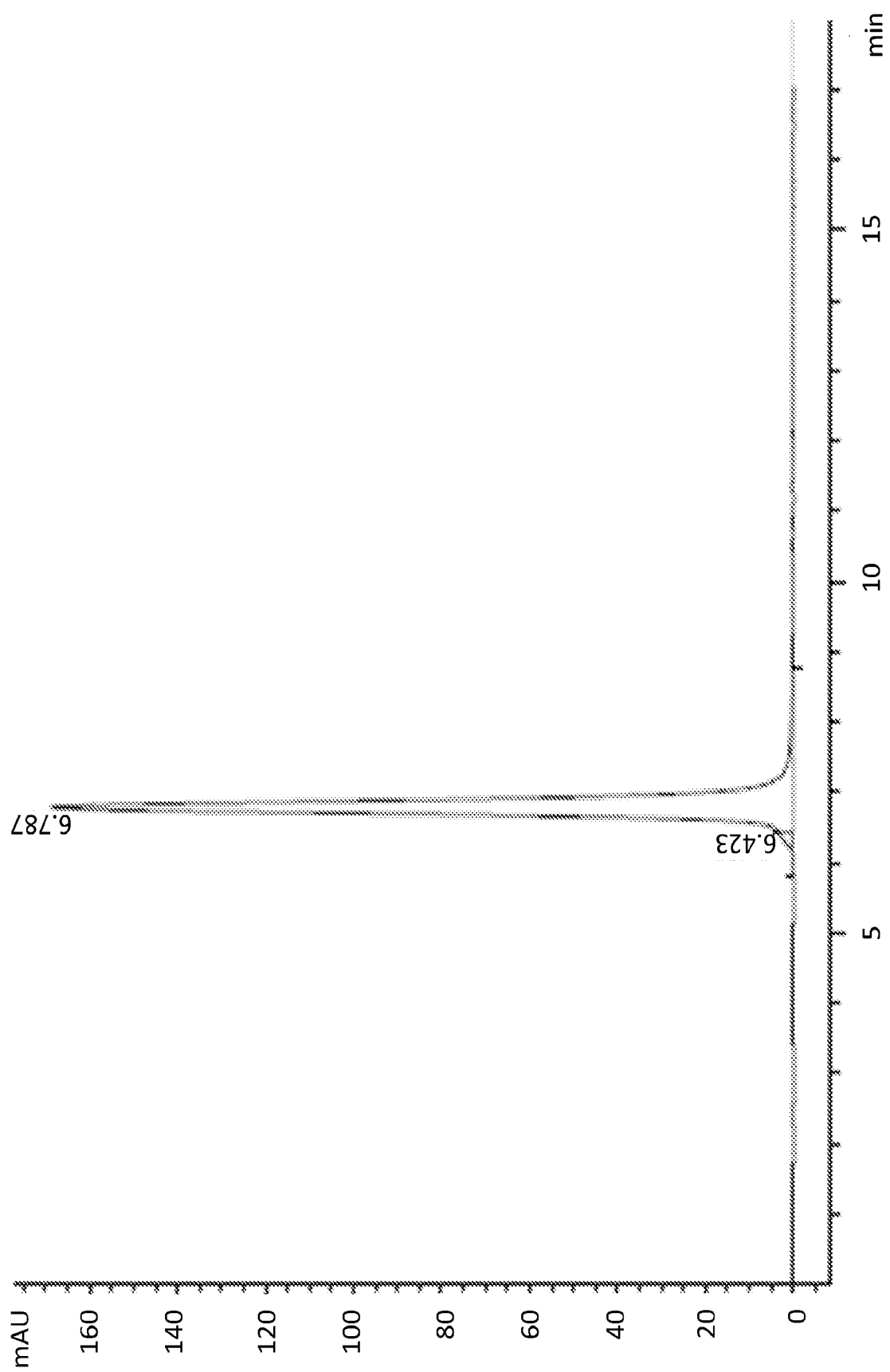


Fig. 13

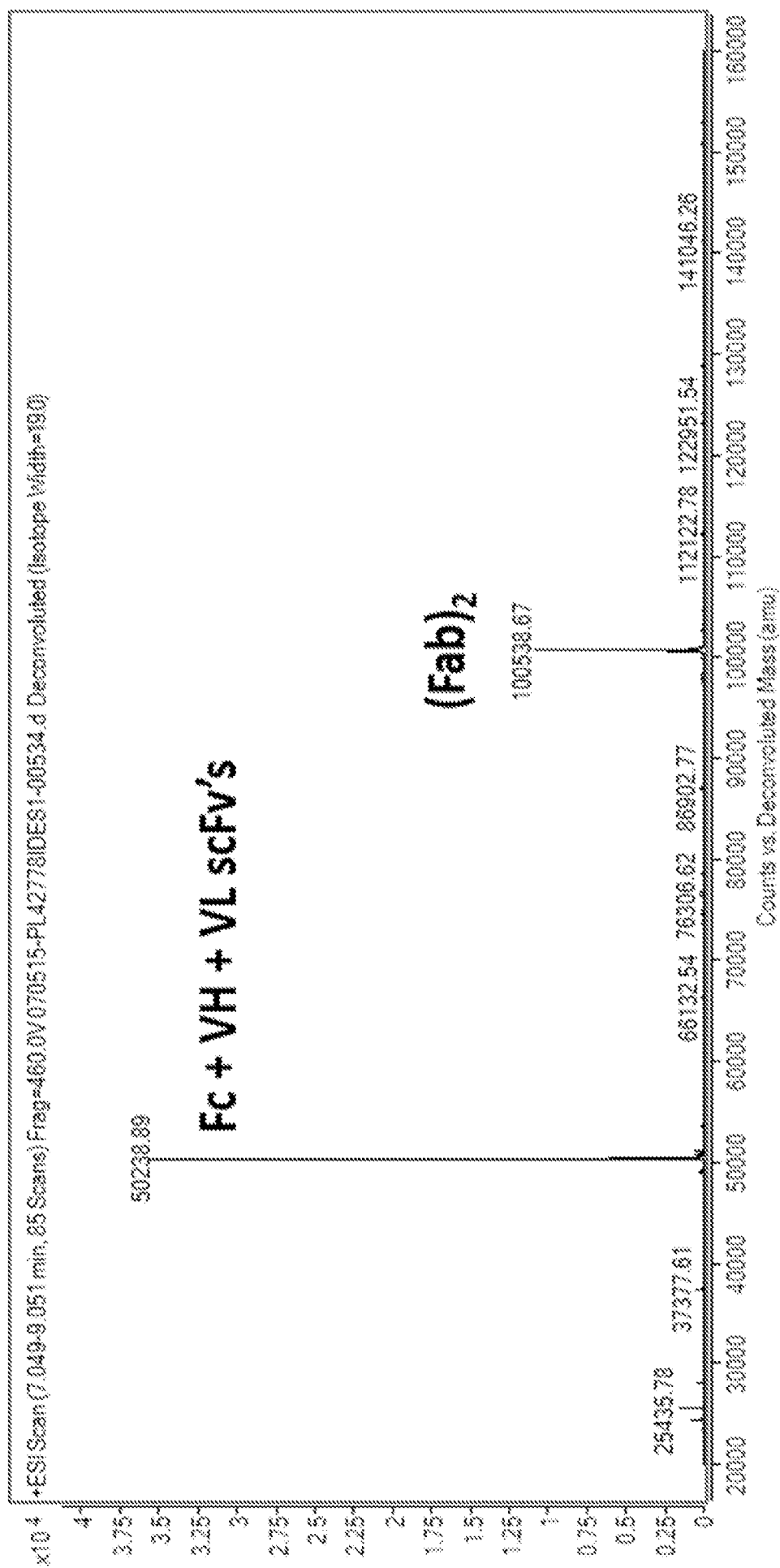


Fig. 14

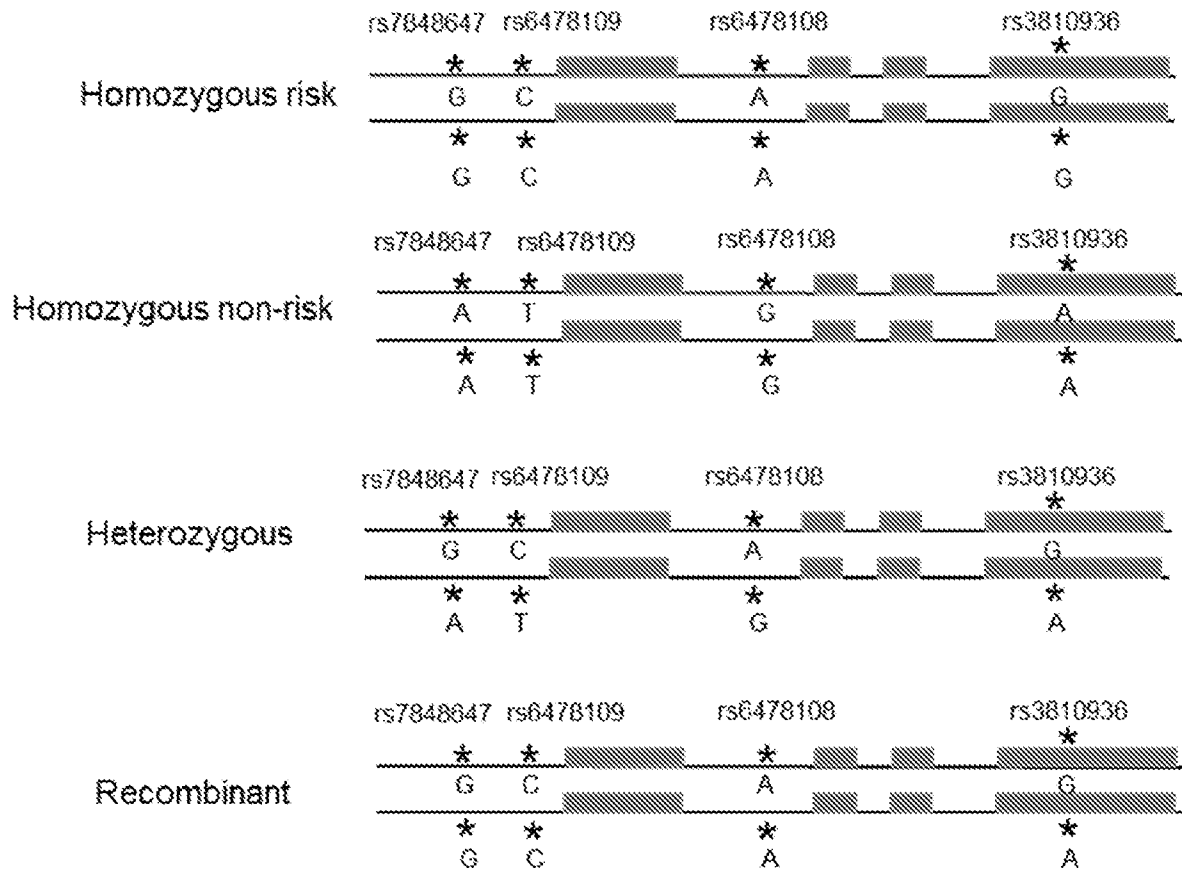


Fig. 15

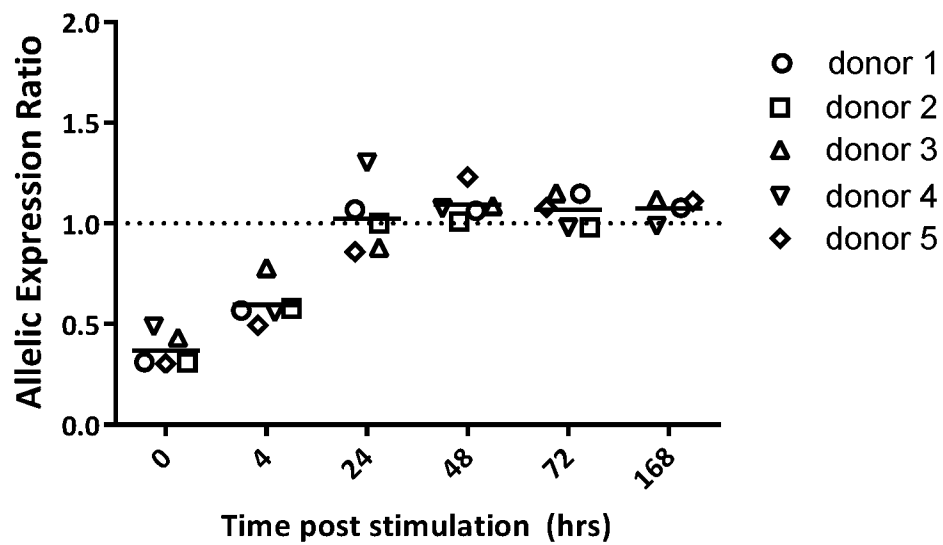


Fig. 16A

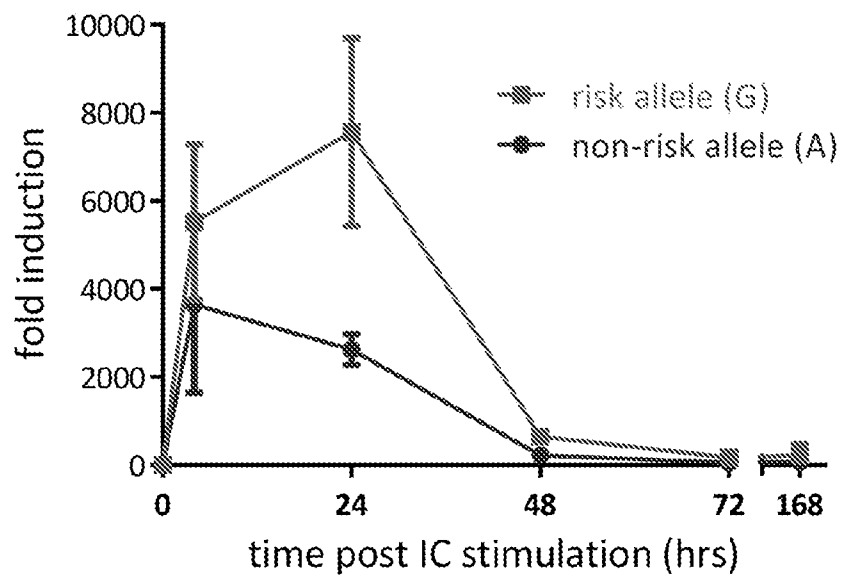


Fig. 16B

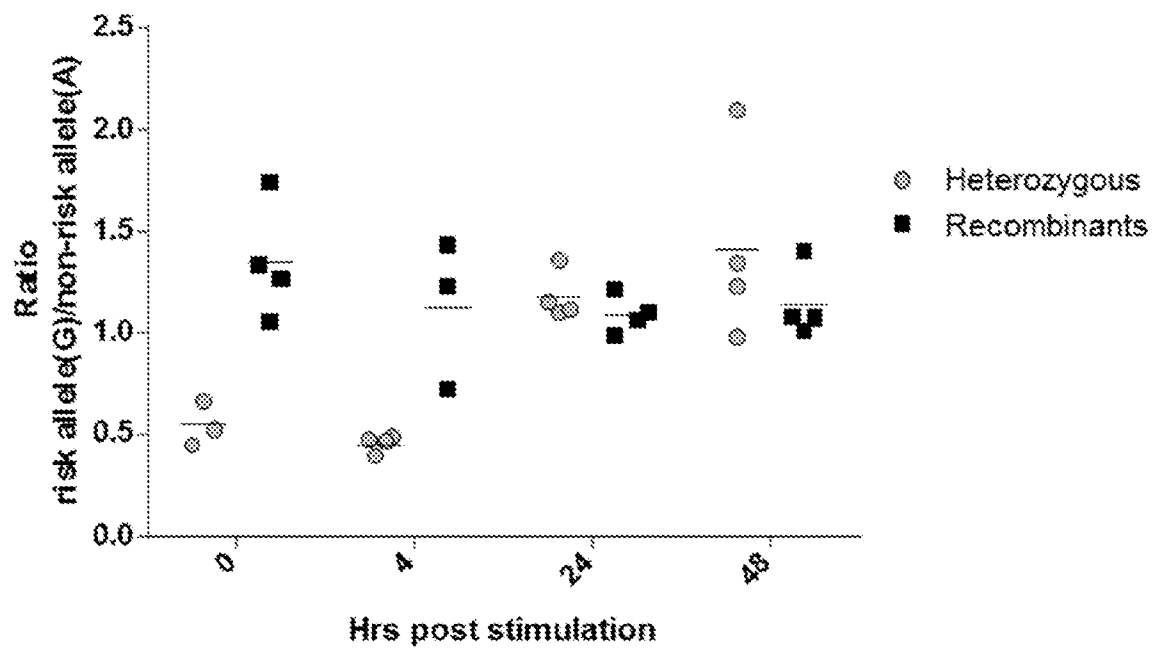


Fig. 17

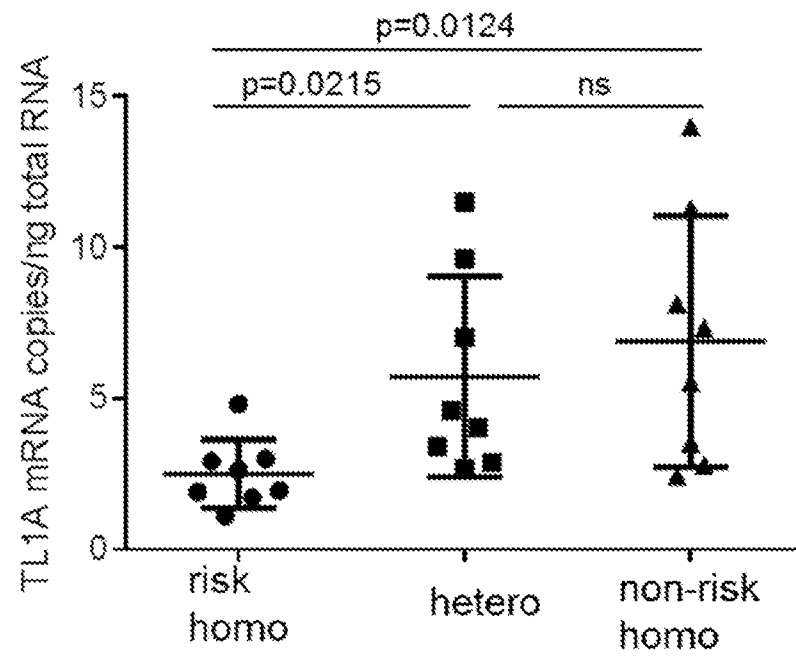


Fig. 18A

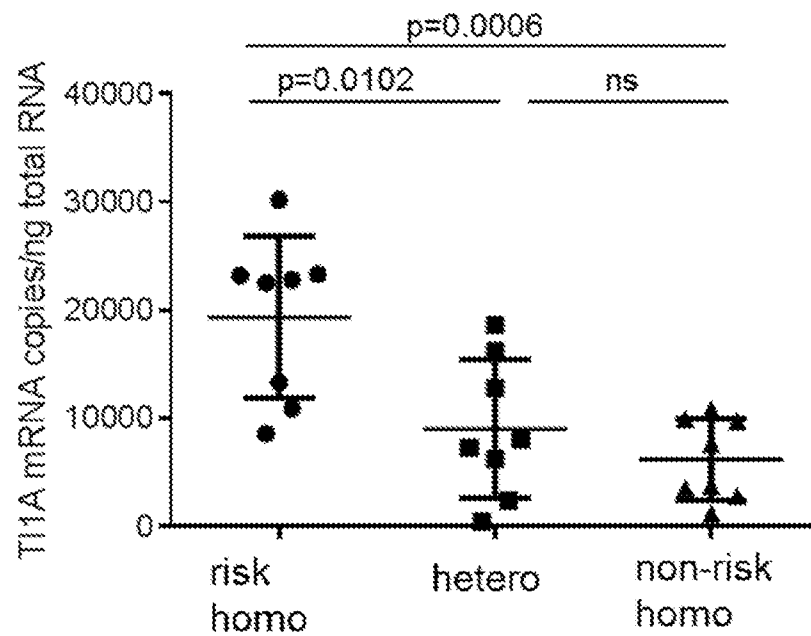


Fig. 18B

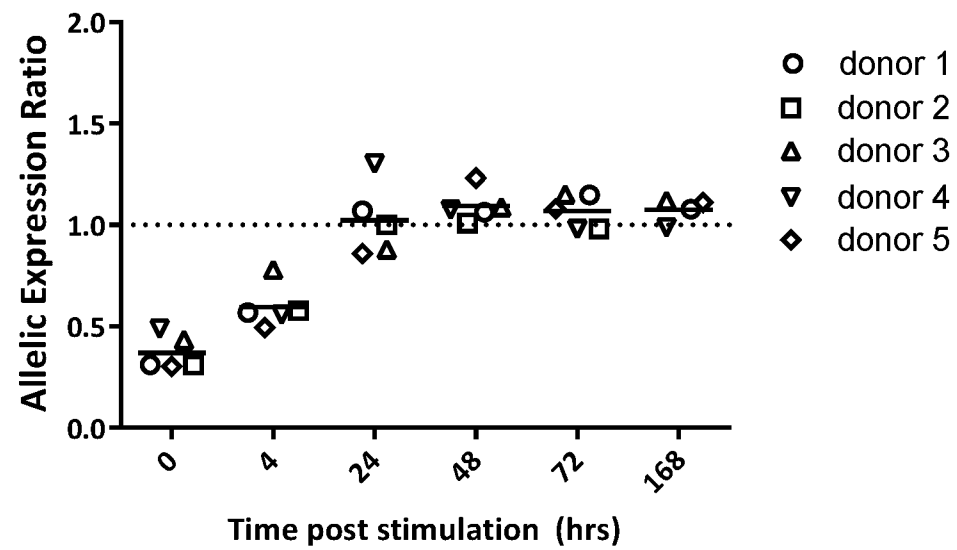


Fig. 19A

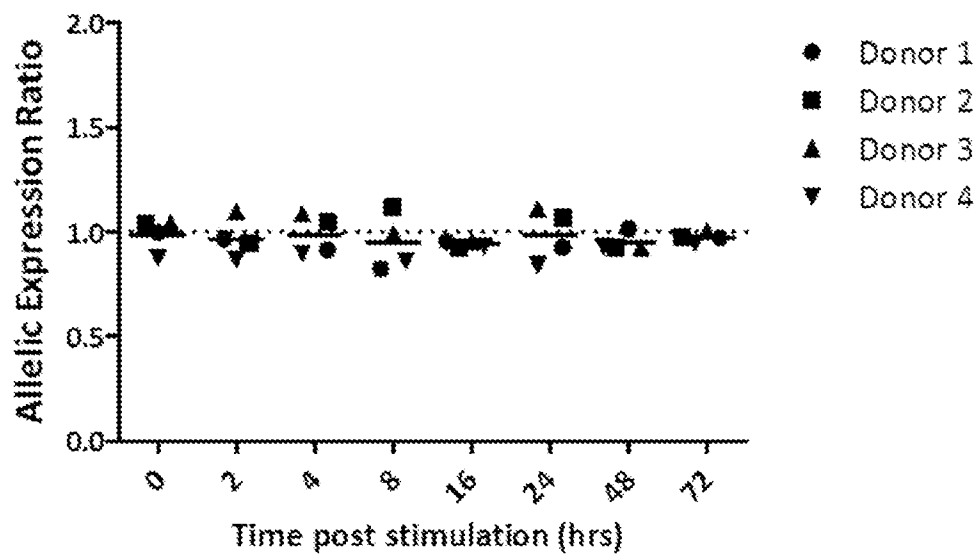


Fig. 19B

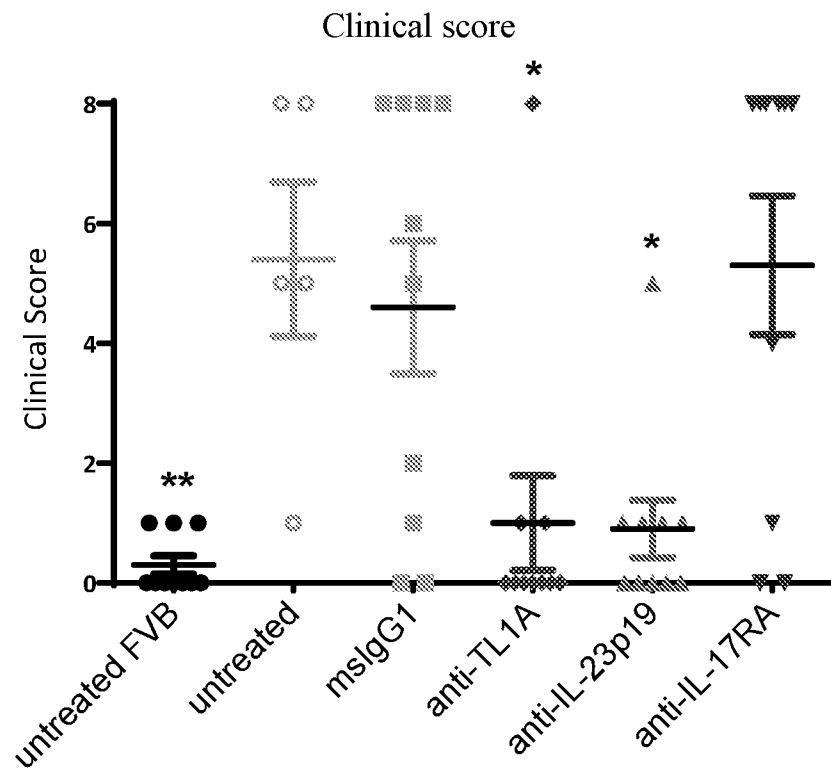


Fig. 20A

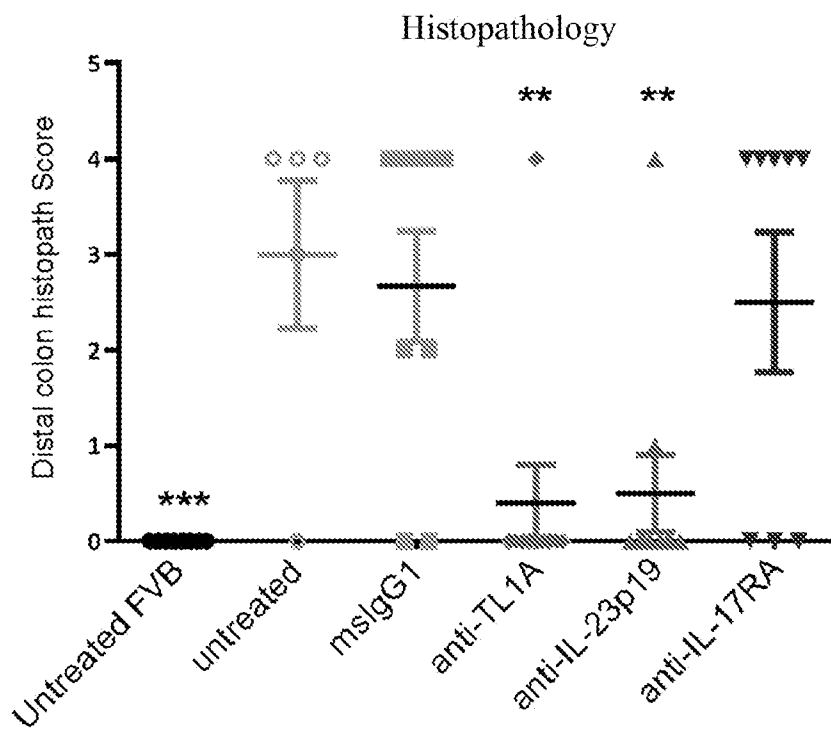


Fig. 20B

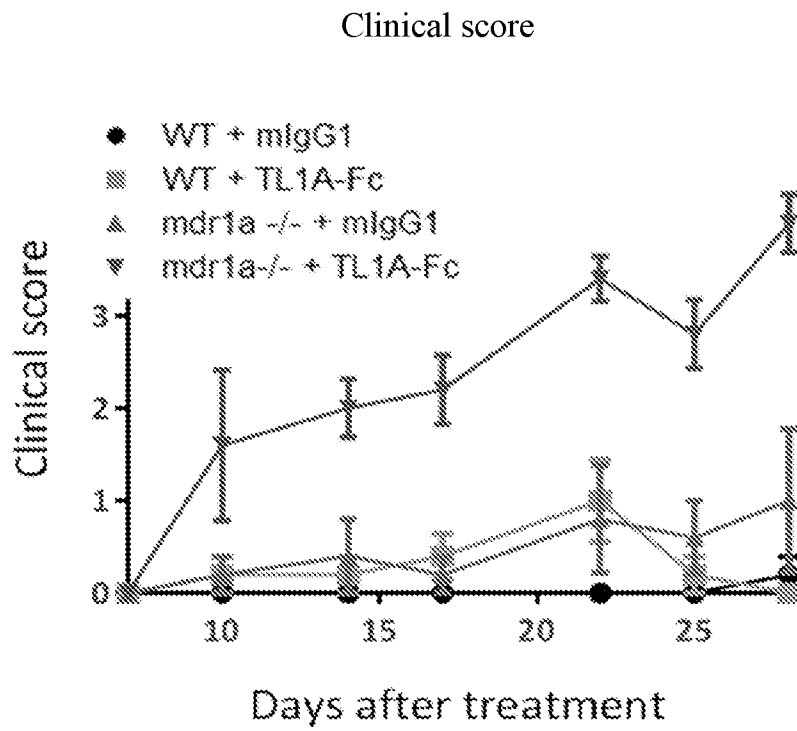


Fig. 21A

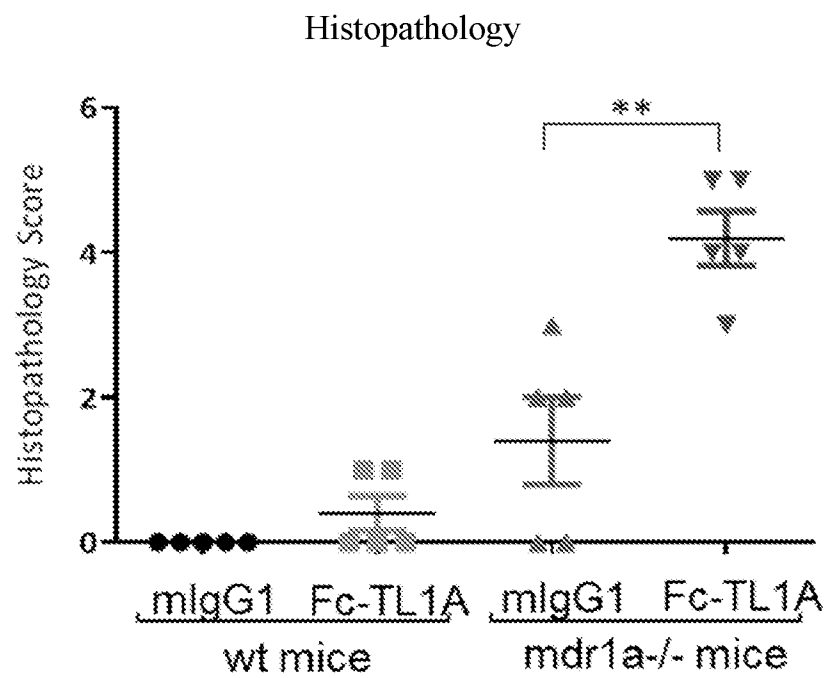


Fig. 21B

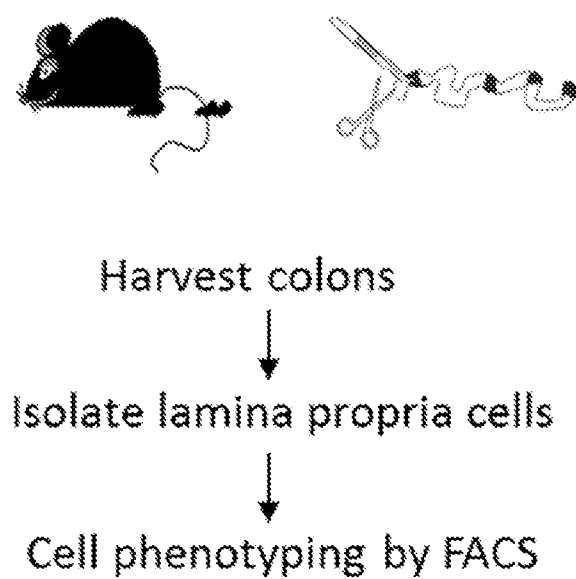


Fig. 22A

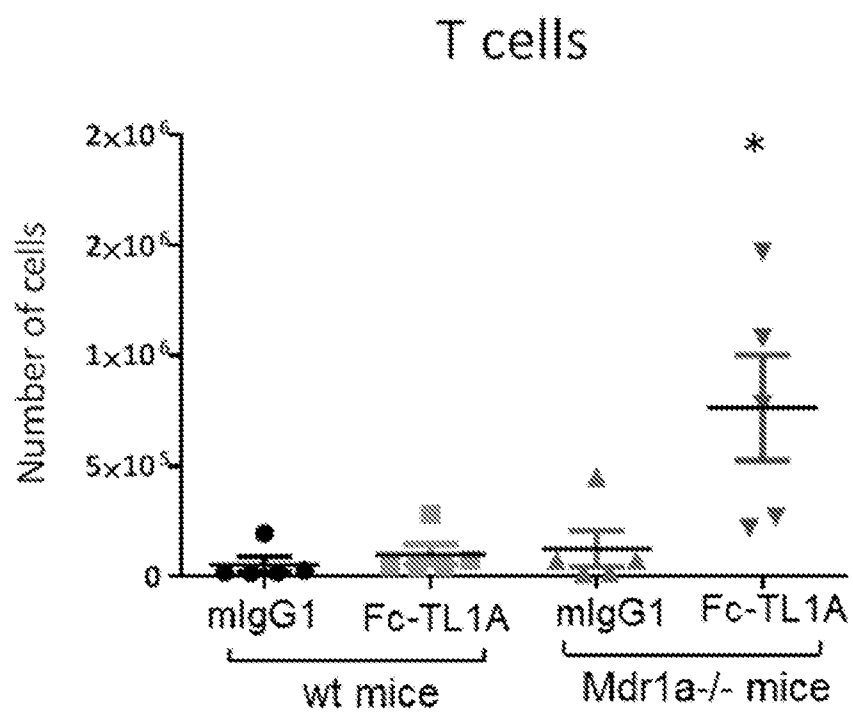


Fig. 22B

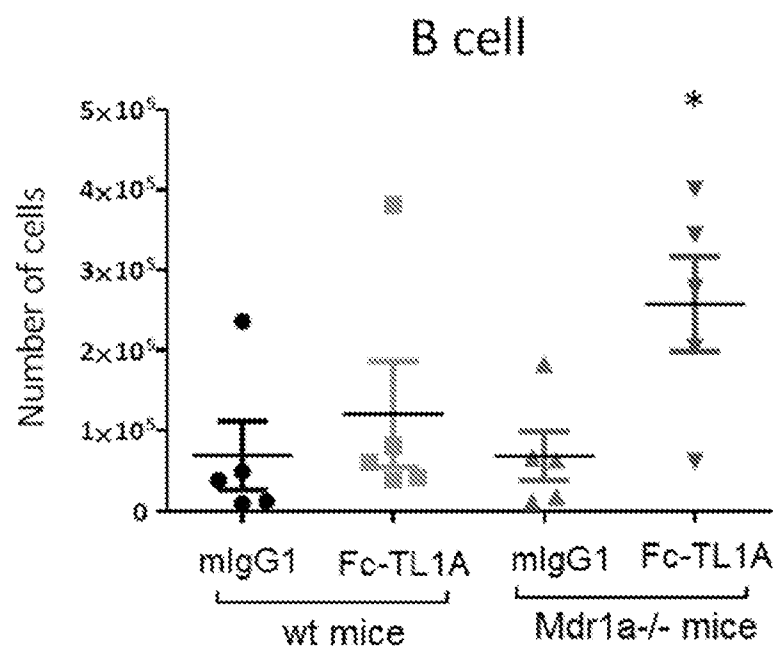


Fig. 22C

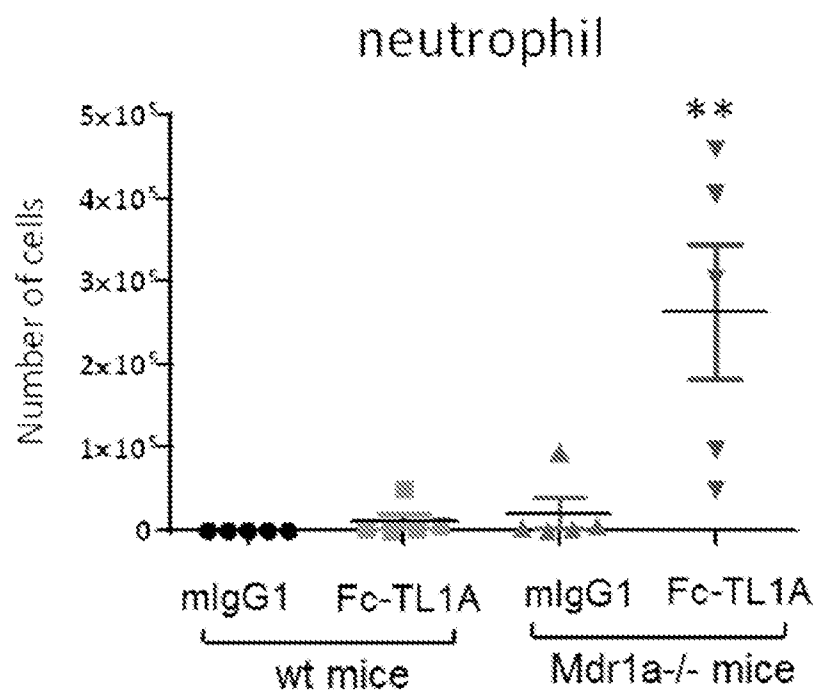


Fig. 22D

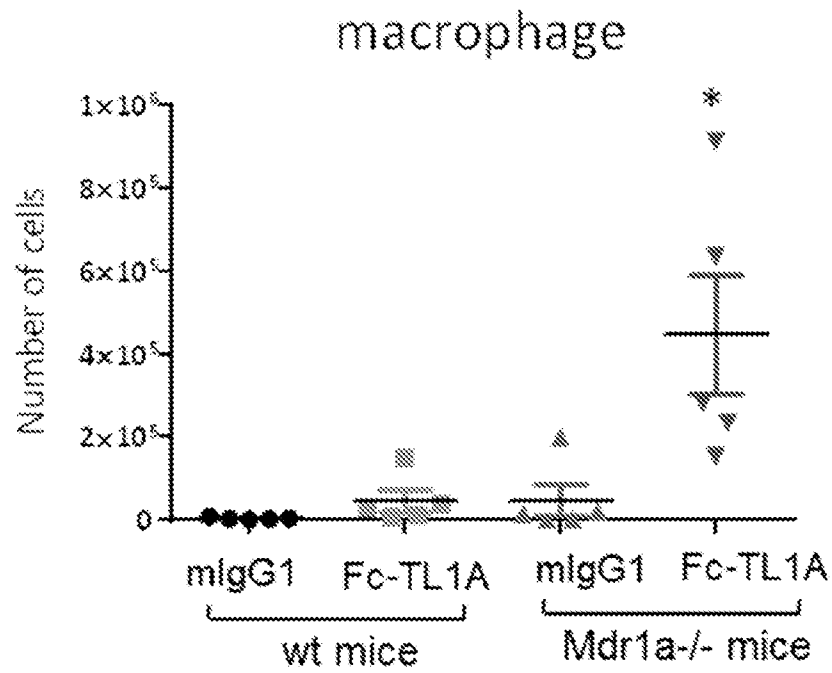


Fig. 22E

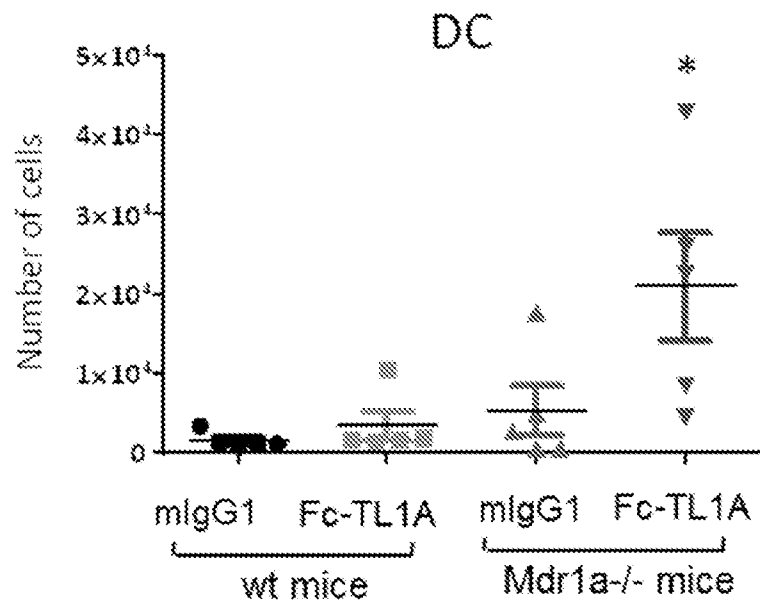


Fig. 22F

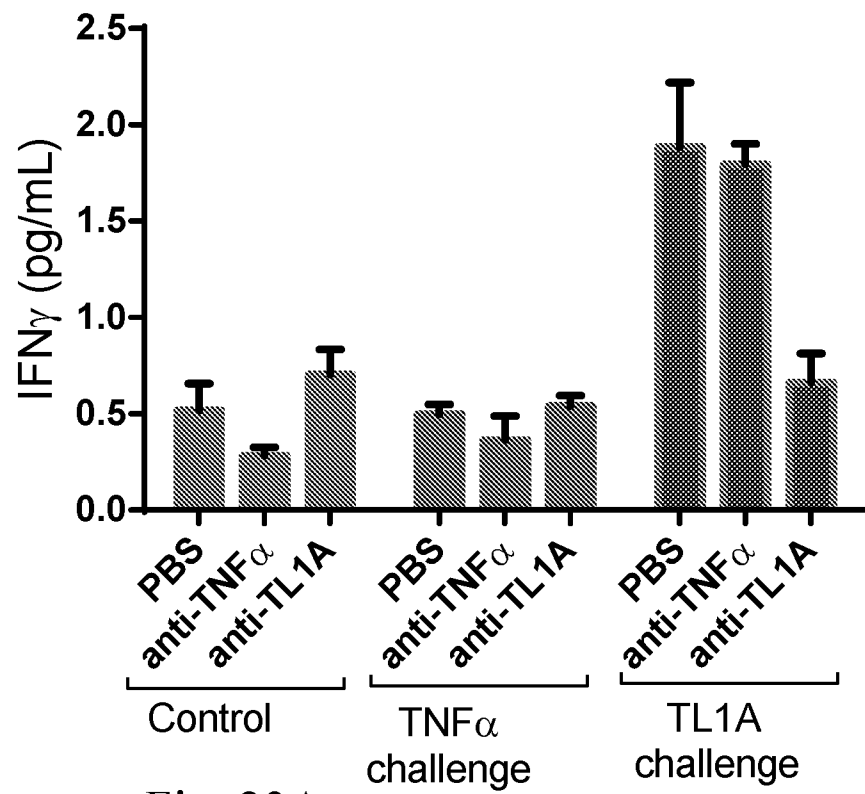


Fig. 23A

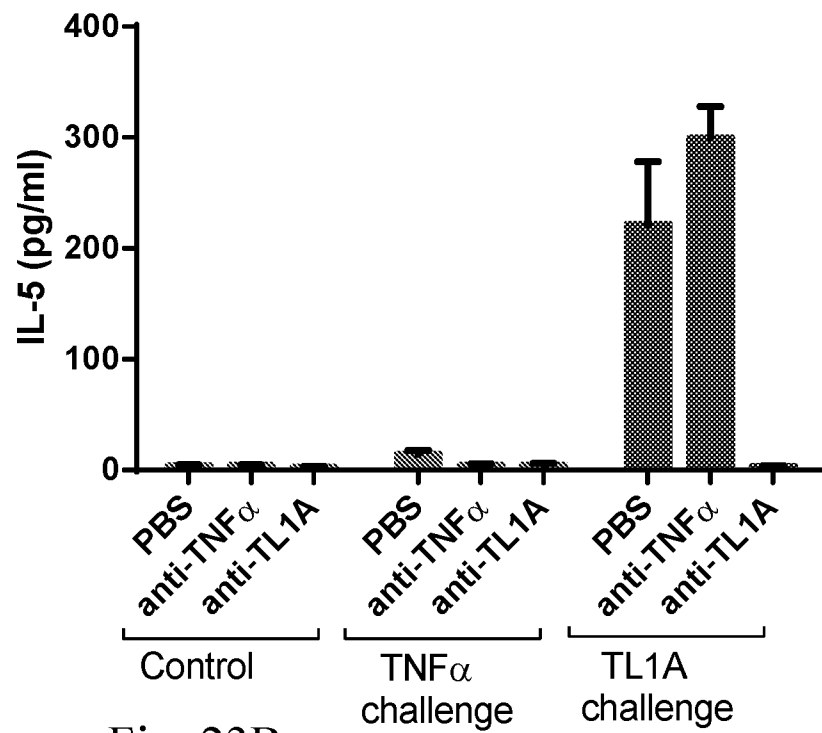


Fig. 23B

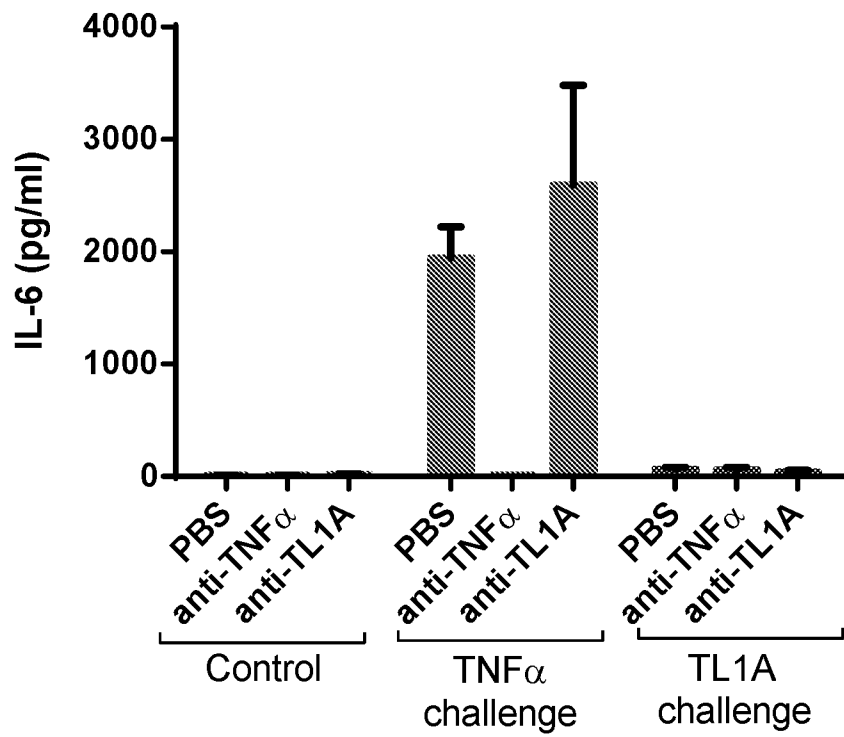


Fig. 23C

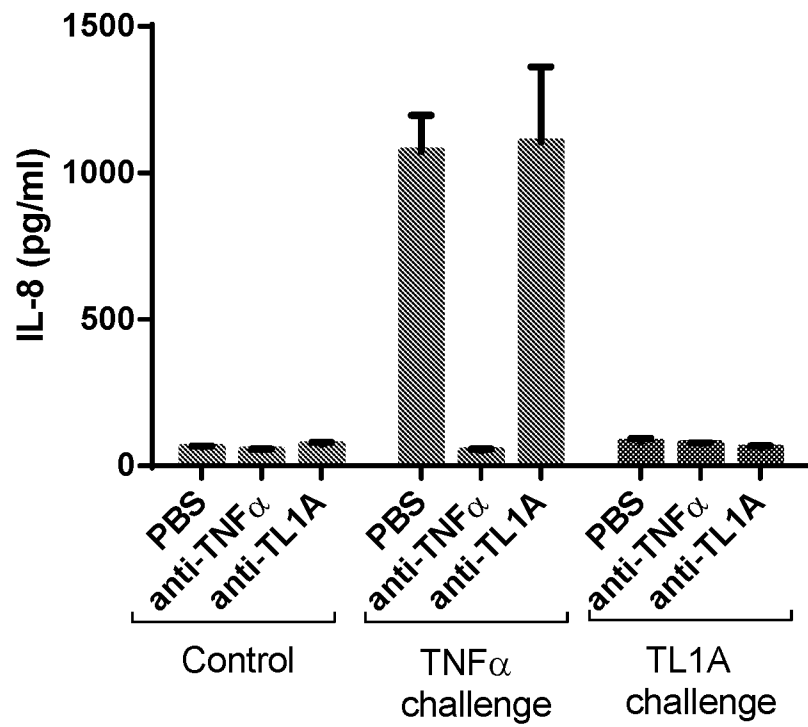


Fig. 23D

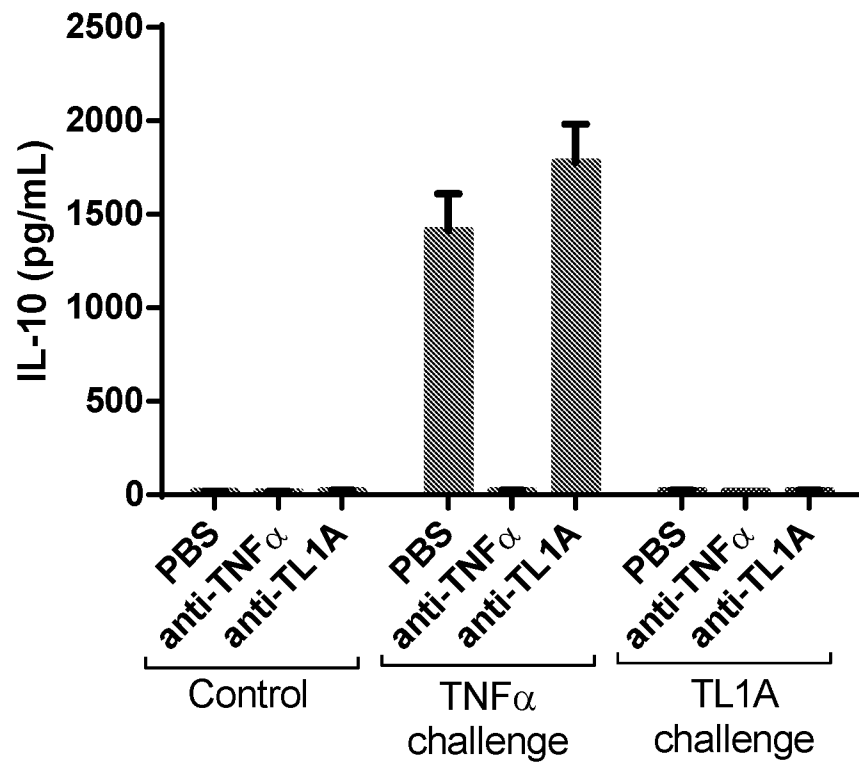


Fig. 23E

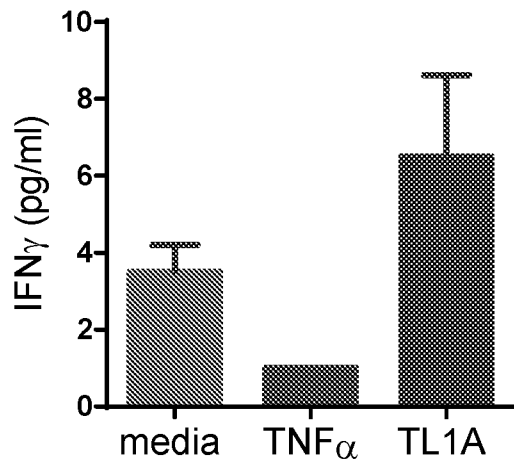


Fig. 24A

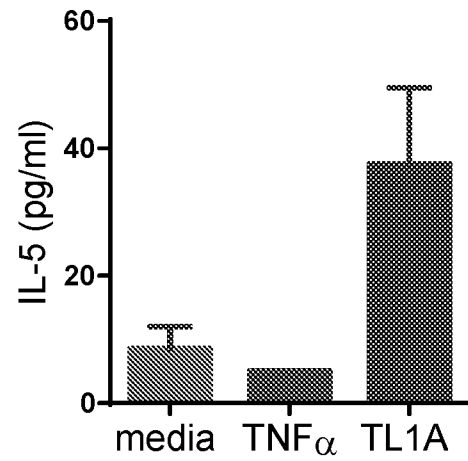


Fig. 24B

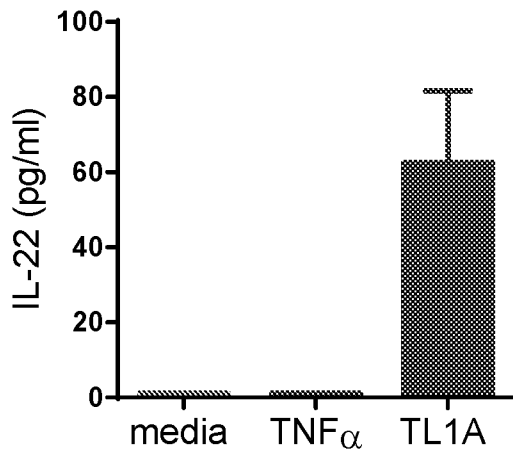


Fig. 24C

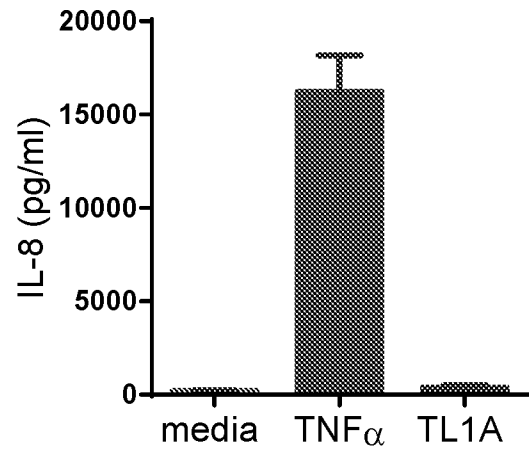


Fig. 24D

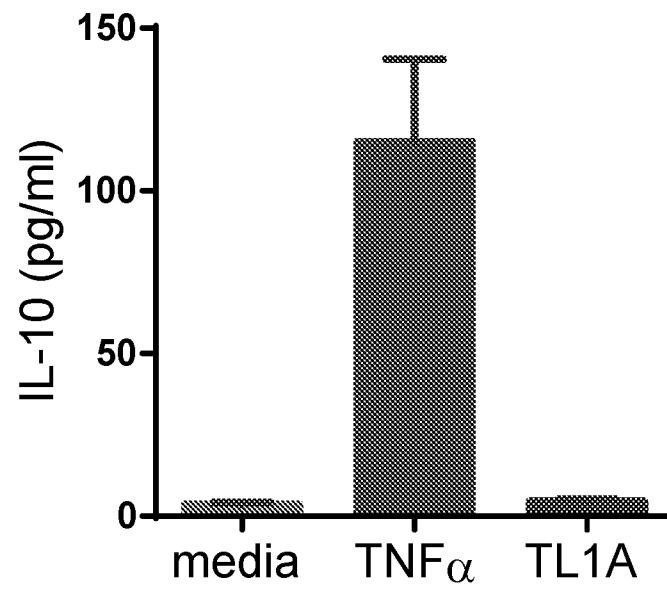


Fig. 24E

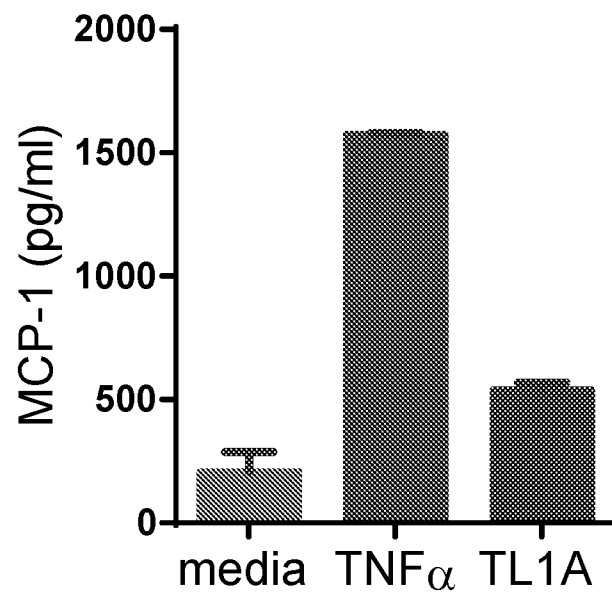
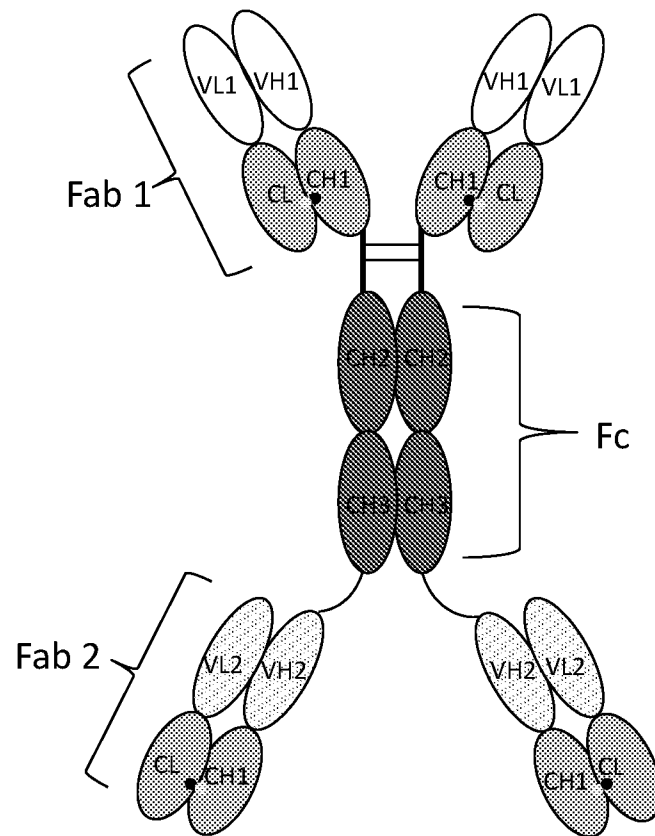


Fig. 24F

Bispecific IgG-Fab



 = Ig hinge

• Charged amino acid

 = peptide linker

◦ Oppositely charged amino acid

Fig. 25

Bispecific IgG-Fab, CH1/CL swap

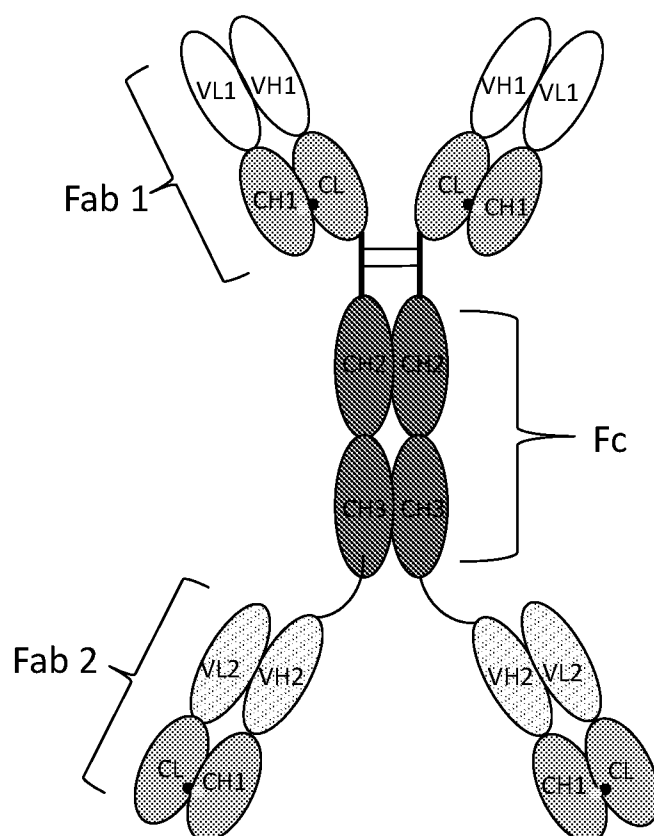
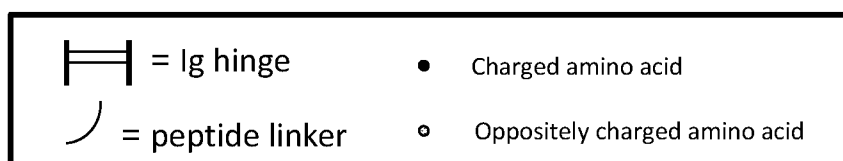


Fig. 26

IgG-Fab Titer: Chain Swapping

Expression Titer (293-6E) & Chain Swapping

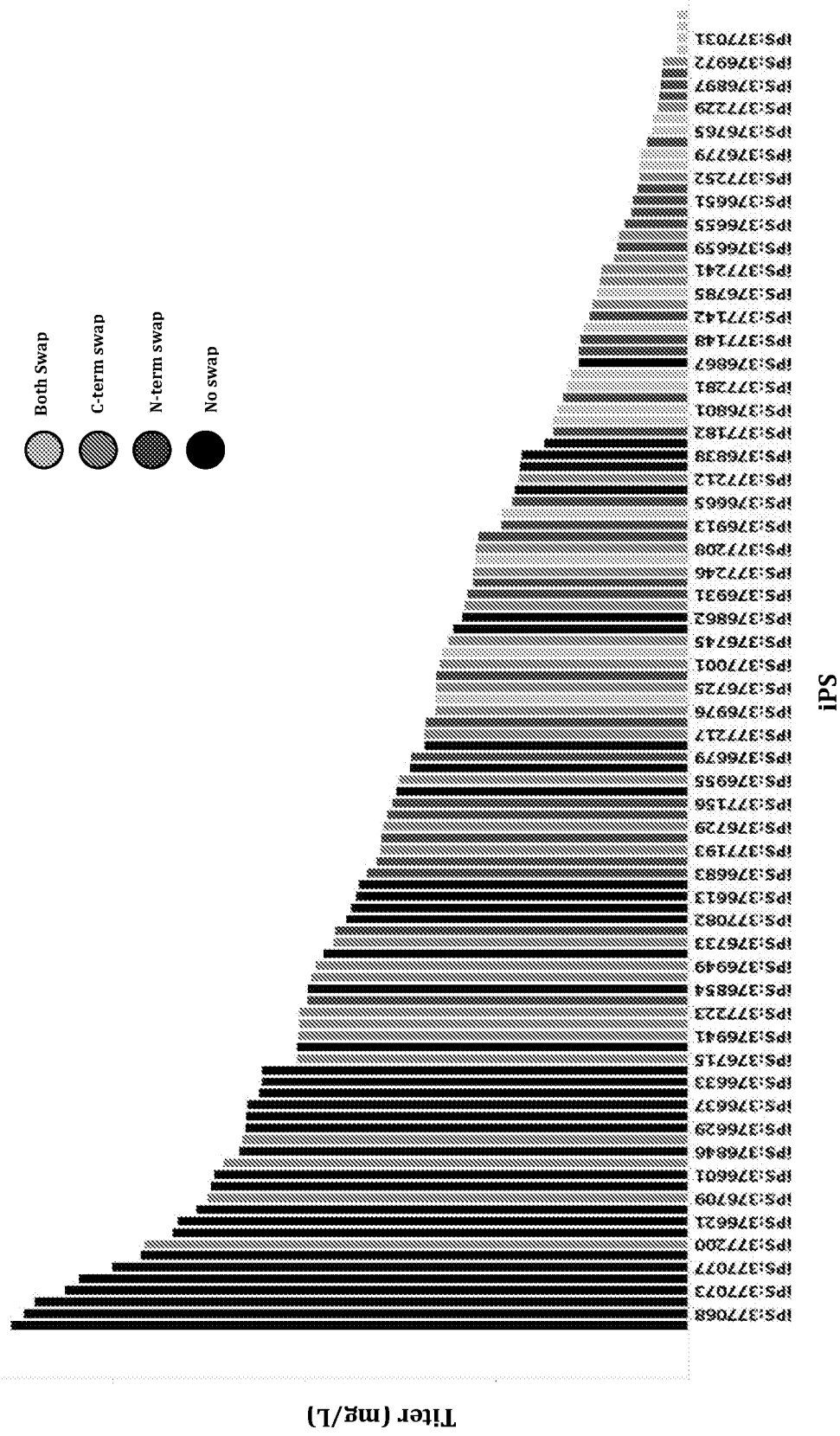
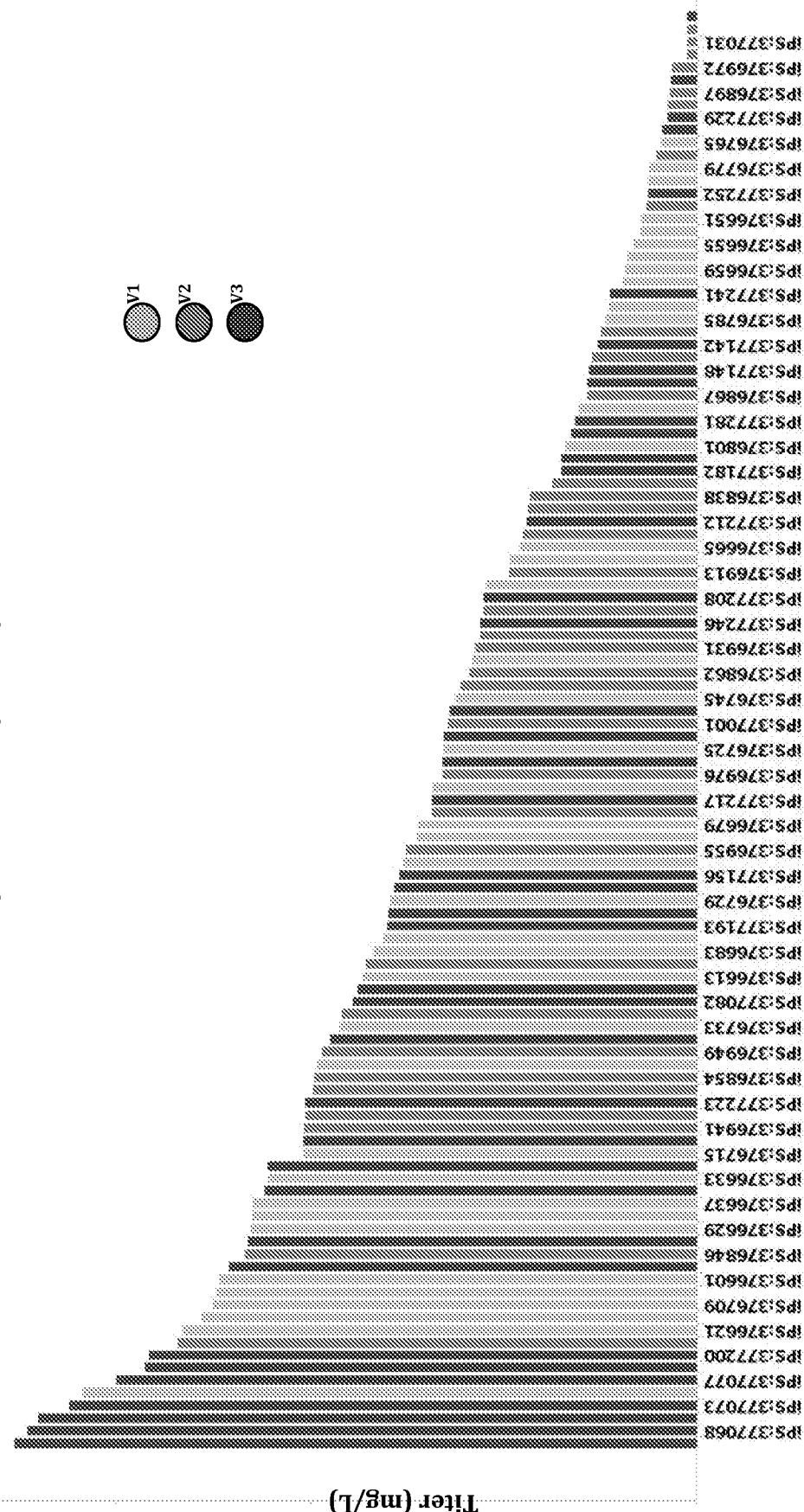


Fig. 27

IgG-Fab Titer: Charge Pair Mutations

Expression Titer (293-6E) & CPM



IPS

Fig. 28

IgG-Fab Purity: Chain Swaps & Effect of Chain Swapping and CPM on HMW

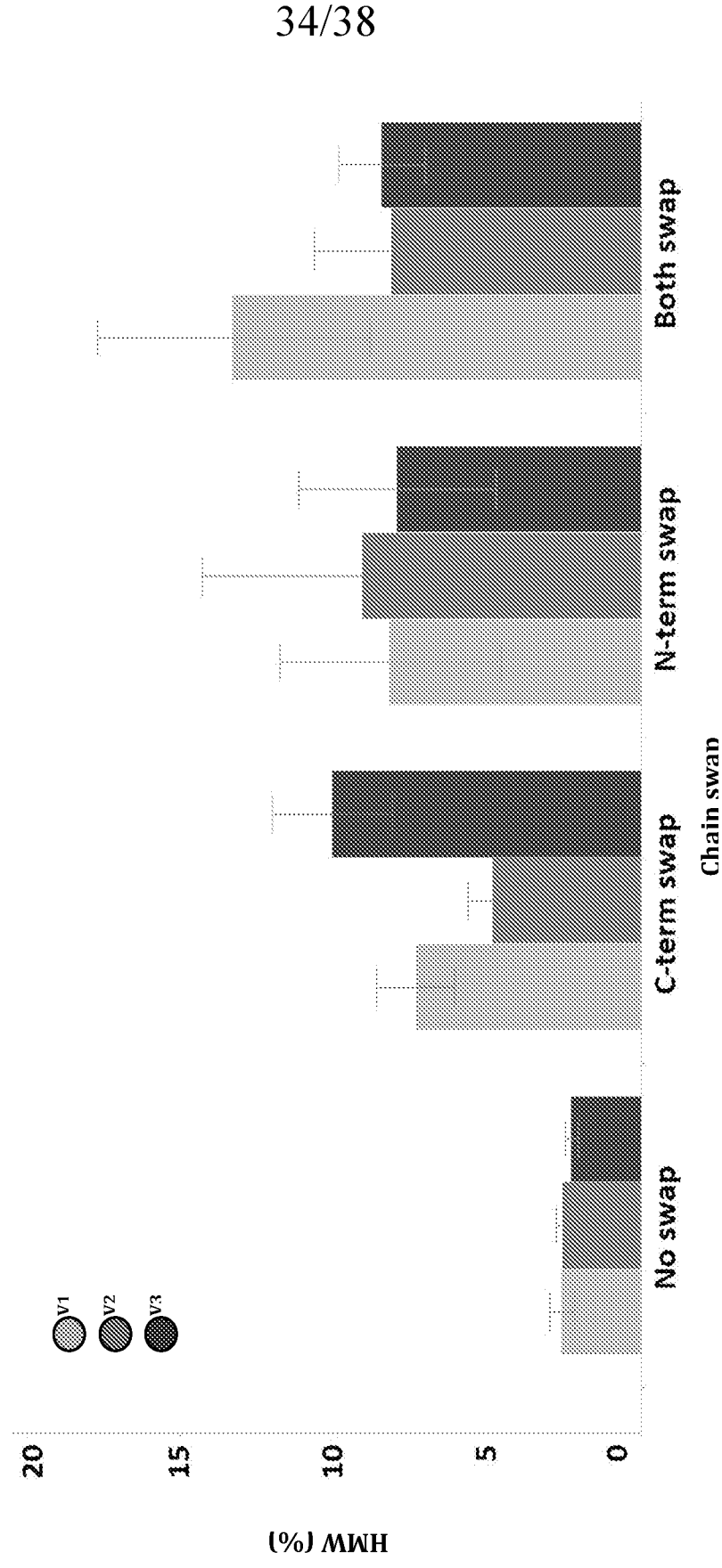


Fig. 29

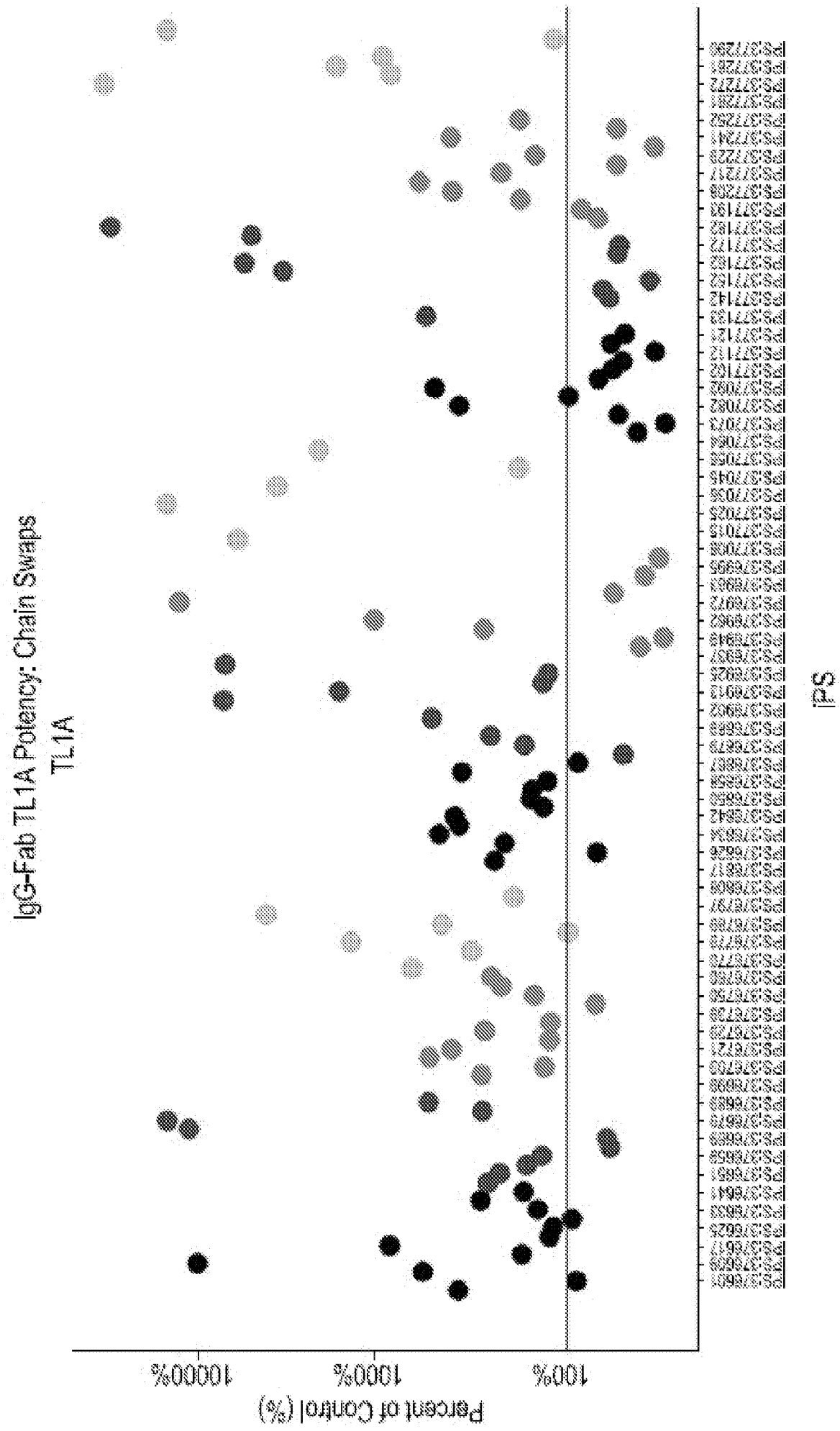


Fig. 30

IgG-Fab TNF α Potency: Chain Swaps

TNF α

- Both swap
- C-term swap
- N-term swap
- No swap

Percent of Control (%)

10000%
1000%
100%
10%

36/38

iPS

Fig. 31

PS.376601
PS.376609
PS.376617
PS.376629
PS.376633
PS.376641
PS.376649
PS.376651
PS.376659
PS.376663
PS.376673
PS.376683
PS.376689
PS.376703
PS.376713
PS.376721
PS.376728
PS.376733
PS.376740
PS.376750
PS.376760
PS.376770
PS.376779
PS.376783
PS.376797
PS.376806
PS.376817
PS.376826
PS.376834
PS.376842
PS.376850
PS.376858
PS.376867
PS.376873
PS.376889
PS.376902
PS.376913
PS.376925
PS.376937
PS.376943
PS.376962
PS.376972
PS.376983
PS.376995
PS.377006
PS.377015
PS.377028
PS.377036
PS.377046
PS.377066
PS.377064
PS.377073
PS.377082
PS.377092
PS.377102
PS.377112
PS.377121
PS.377133
PS.377142
PS.377152
PS.377162
PS.377172
PS.377182
PS.377193
PS.377206
PS.377217
PS.377229
PS.377241
PS.377252
PS.377261
PS.377272
PS.377281
PS.377293

IgG-Fab TL1A Potency: CPMs

TL1A

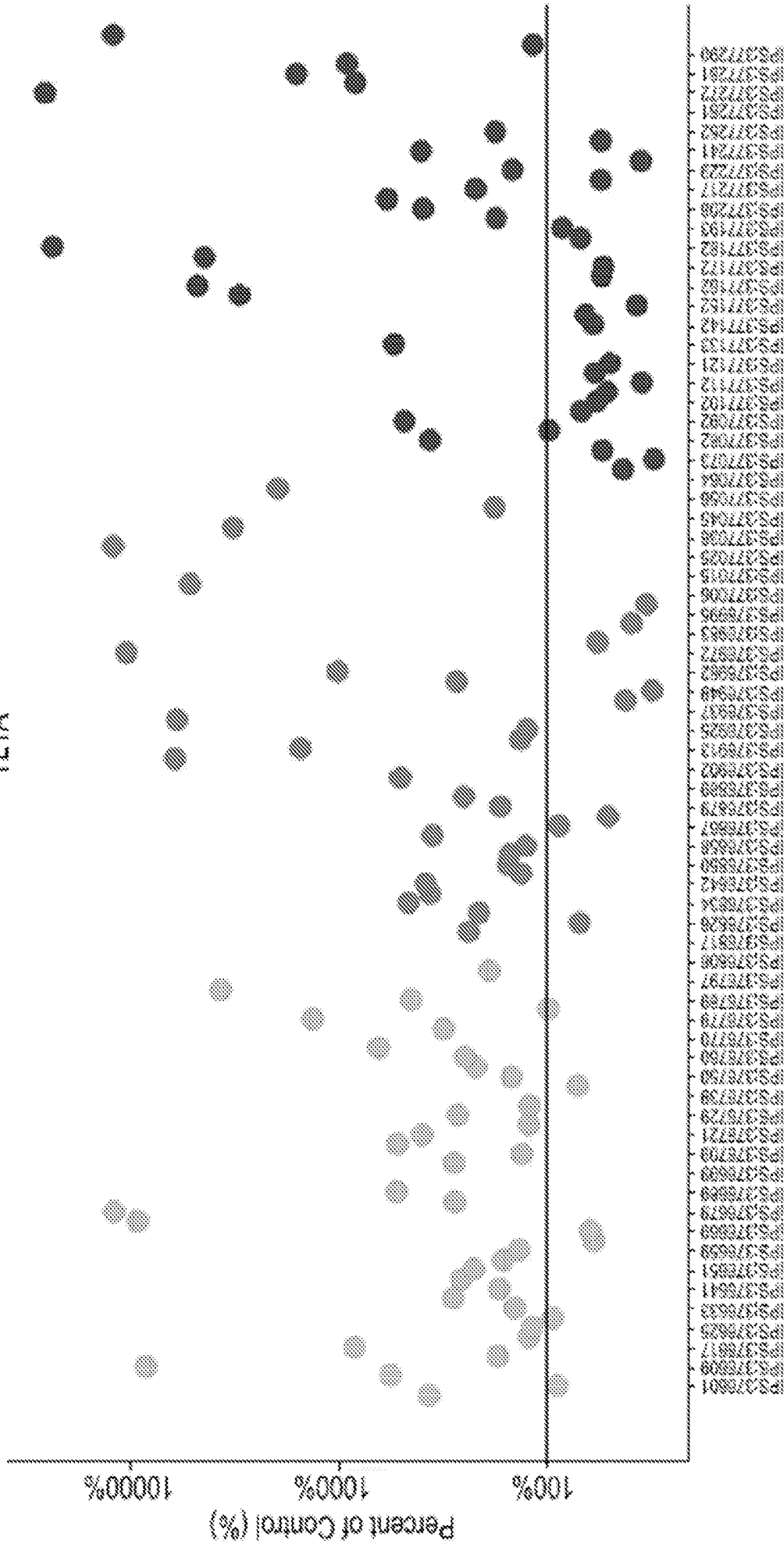


Fig. 32

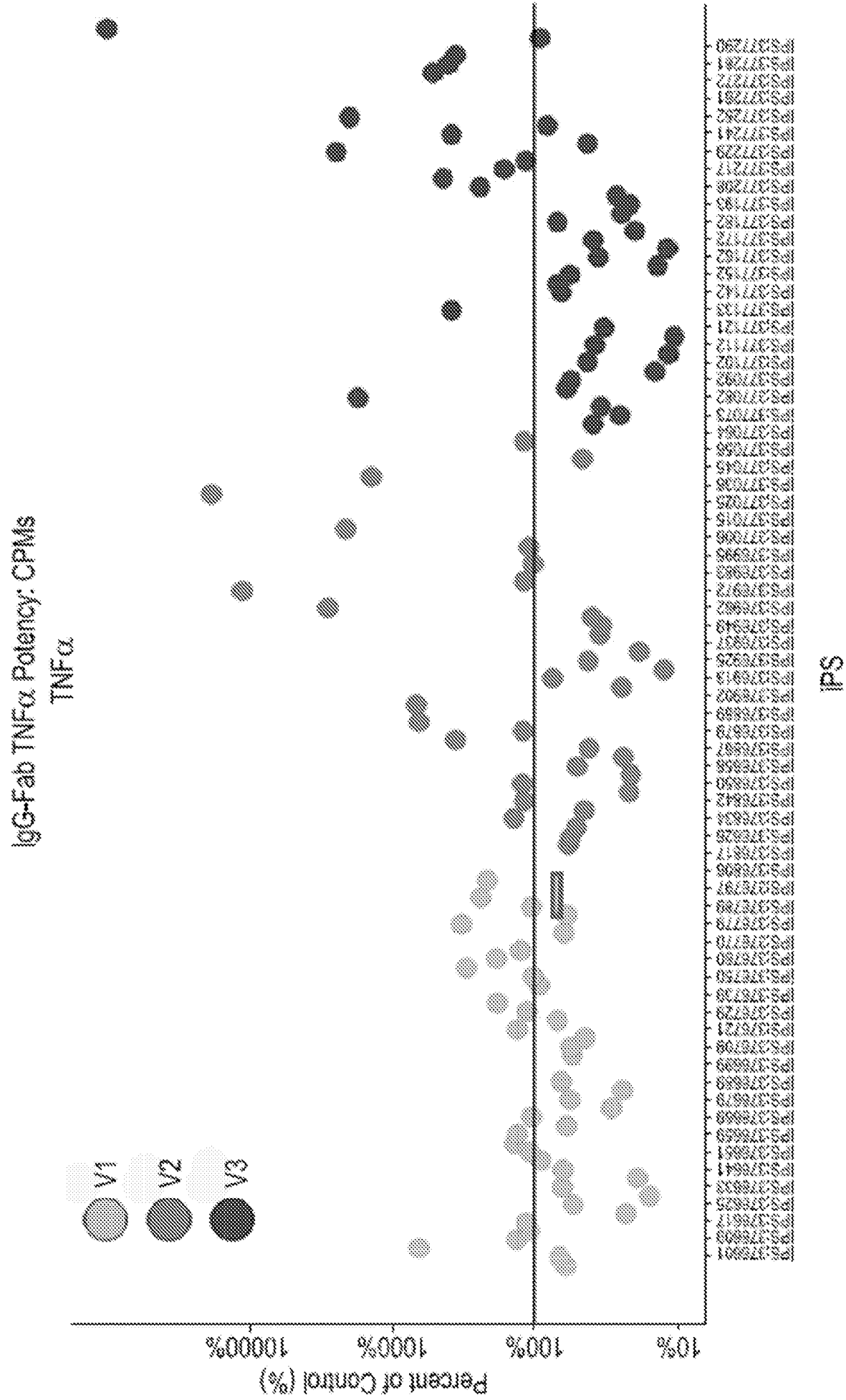


Fig. 33