

Figure 1

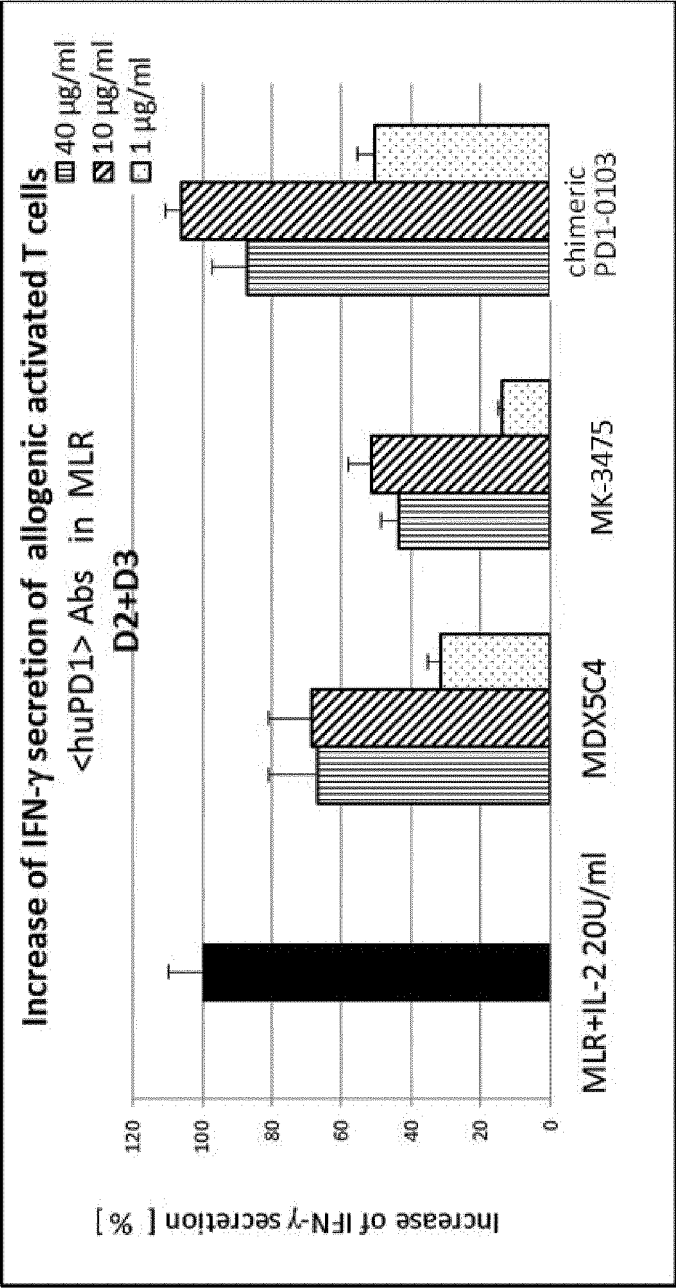


Figure 2

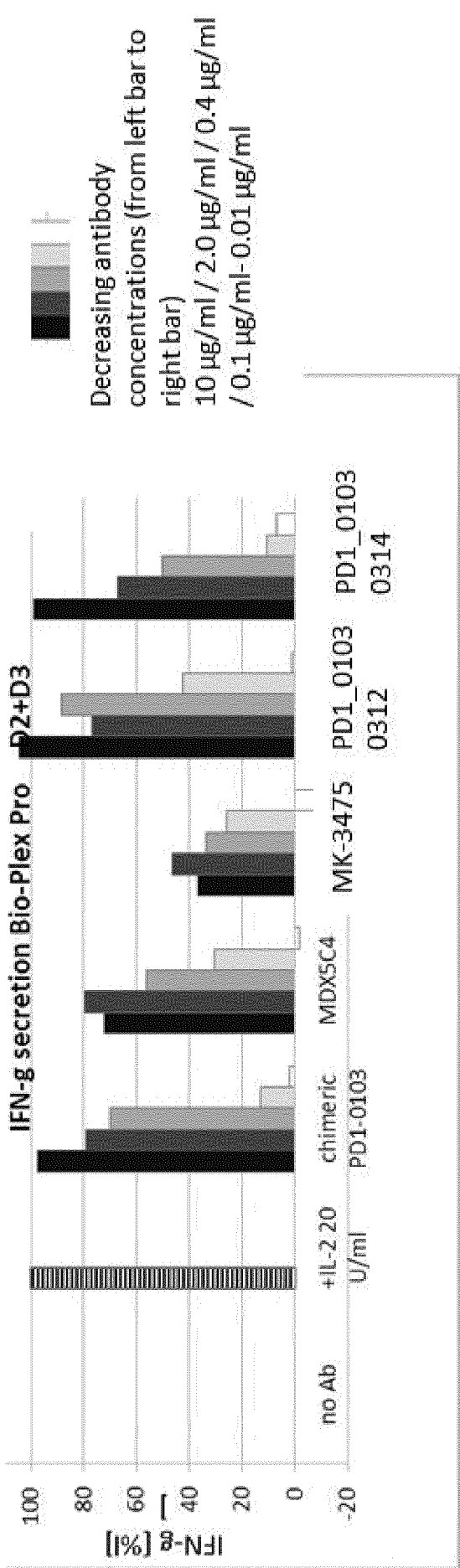


Figure 3

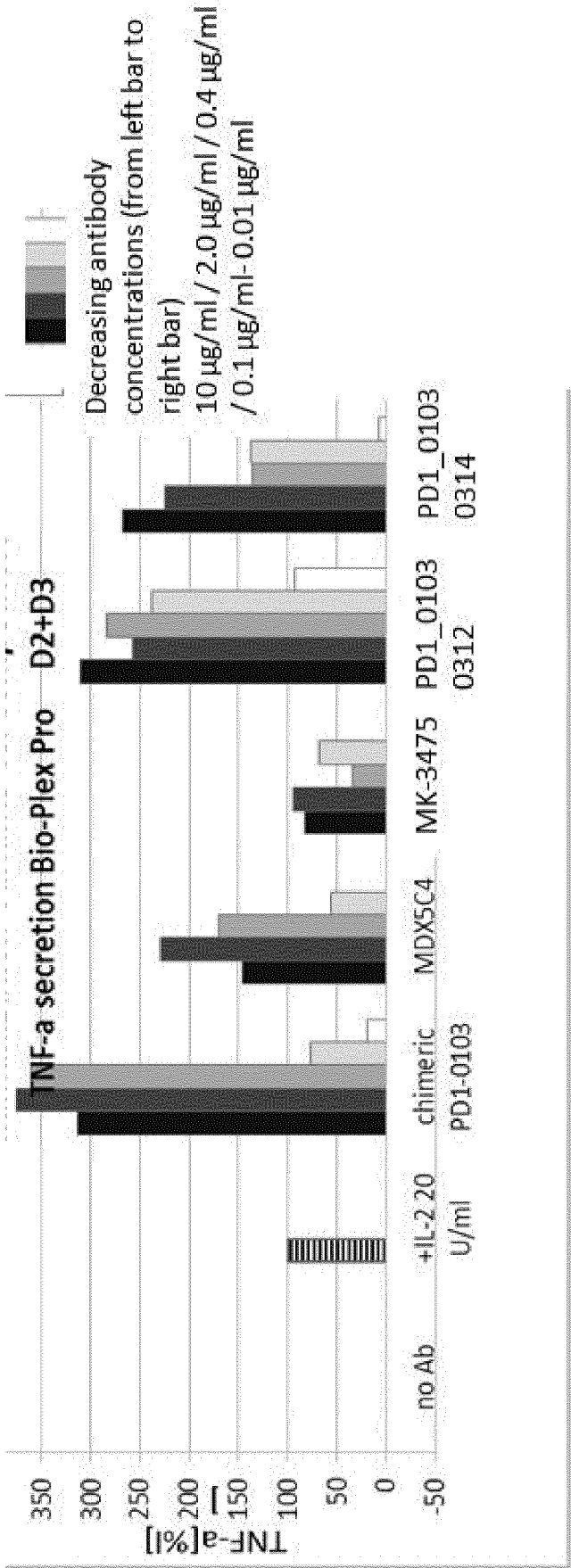


Figure 4A

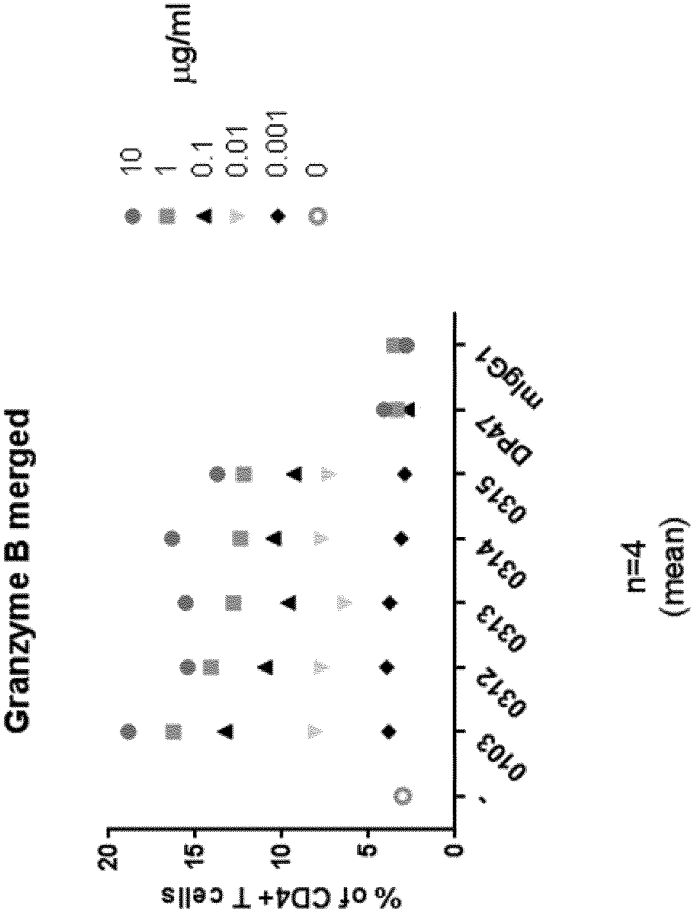


Figure 4B

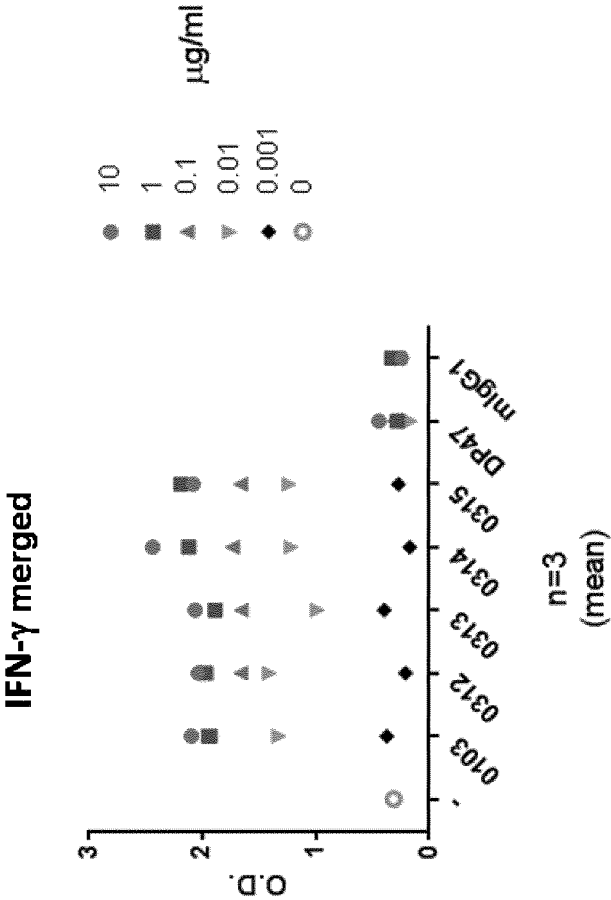
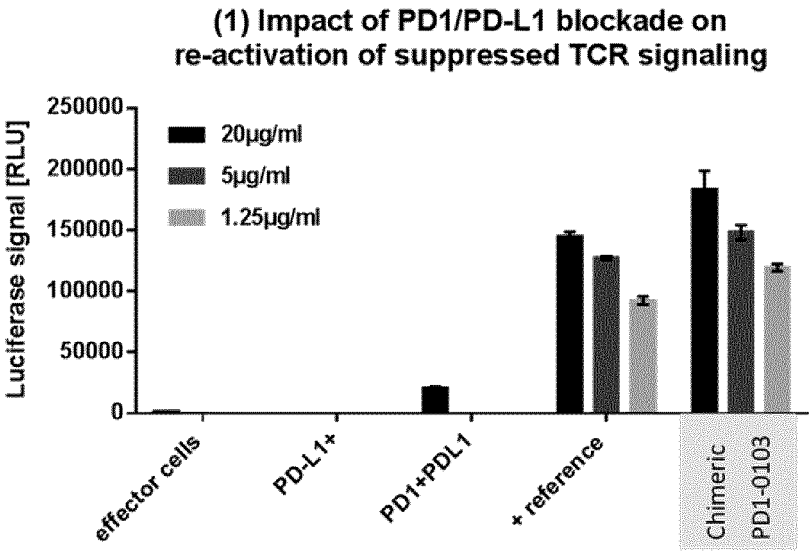


Figure 5A and 5B

5A



5B

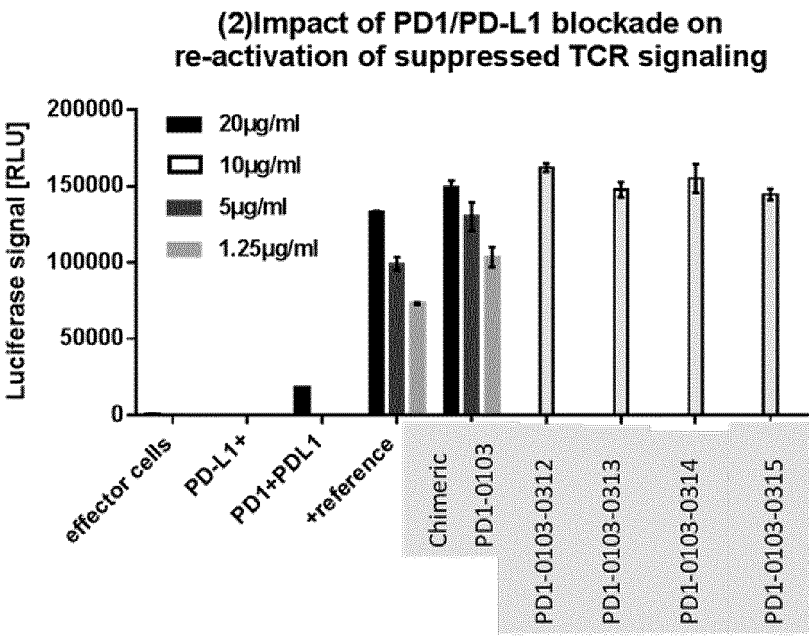


Figure 6

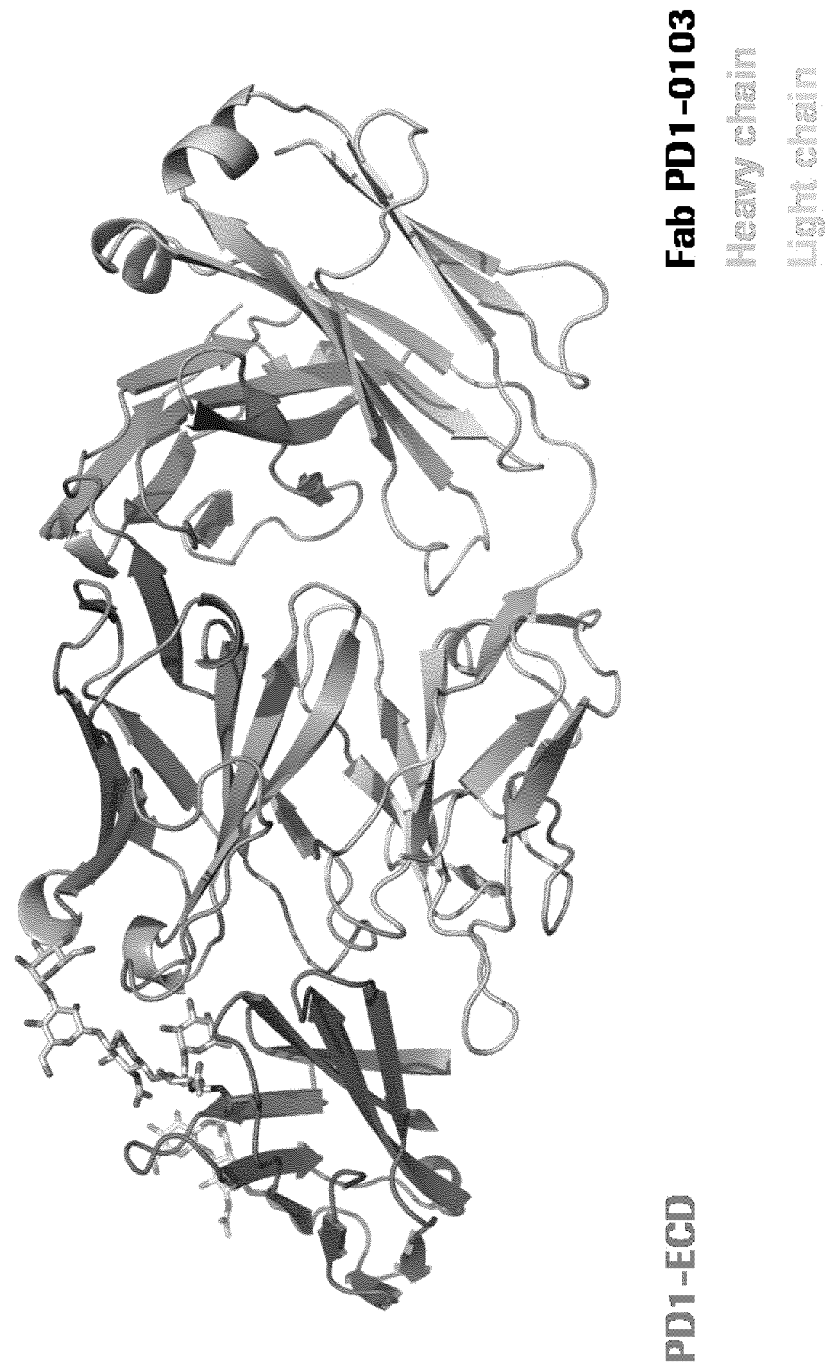


Figure 7

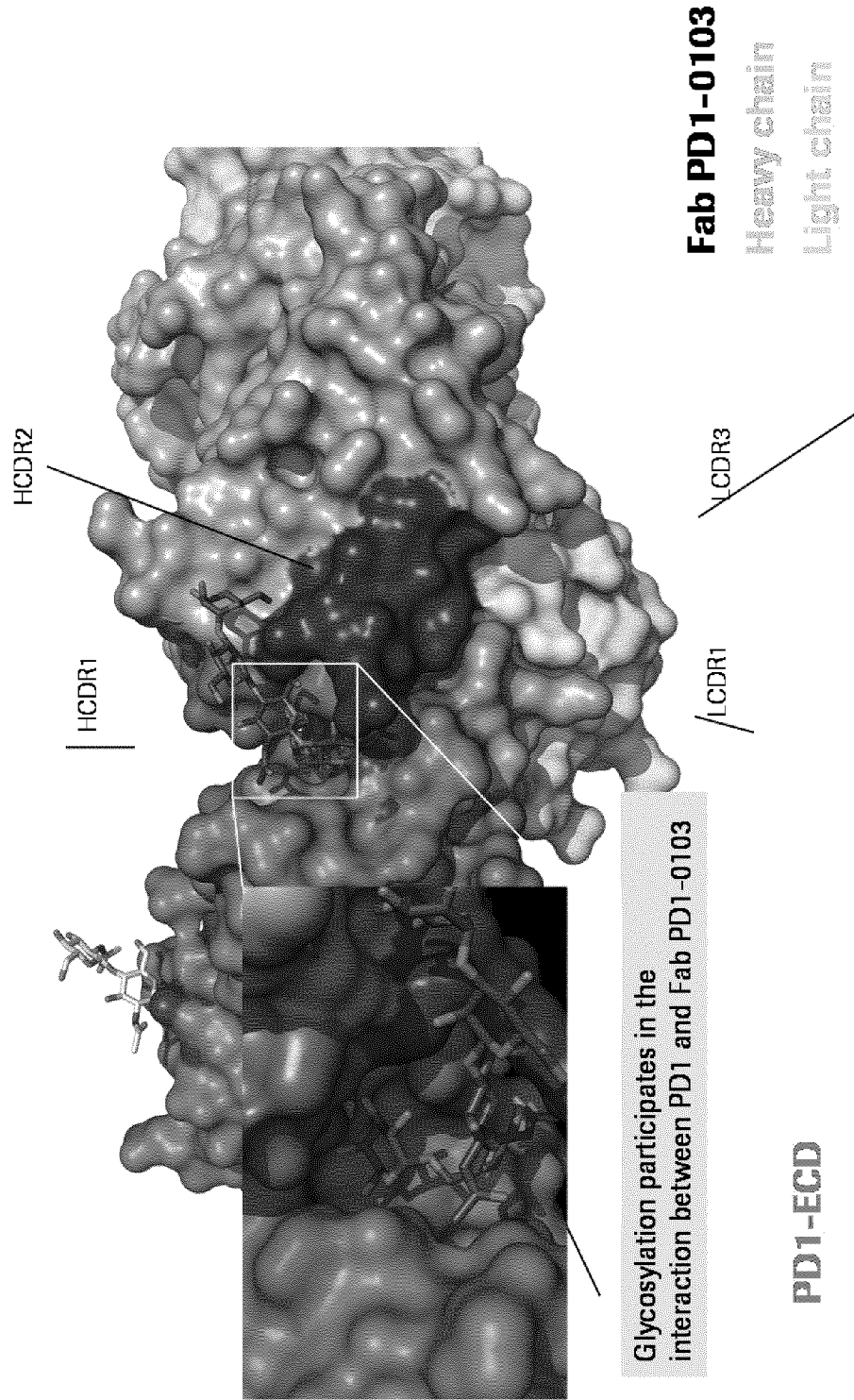


Figure 8

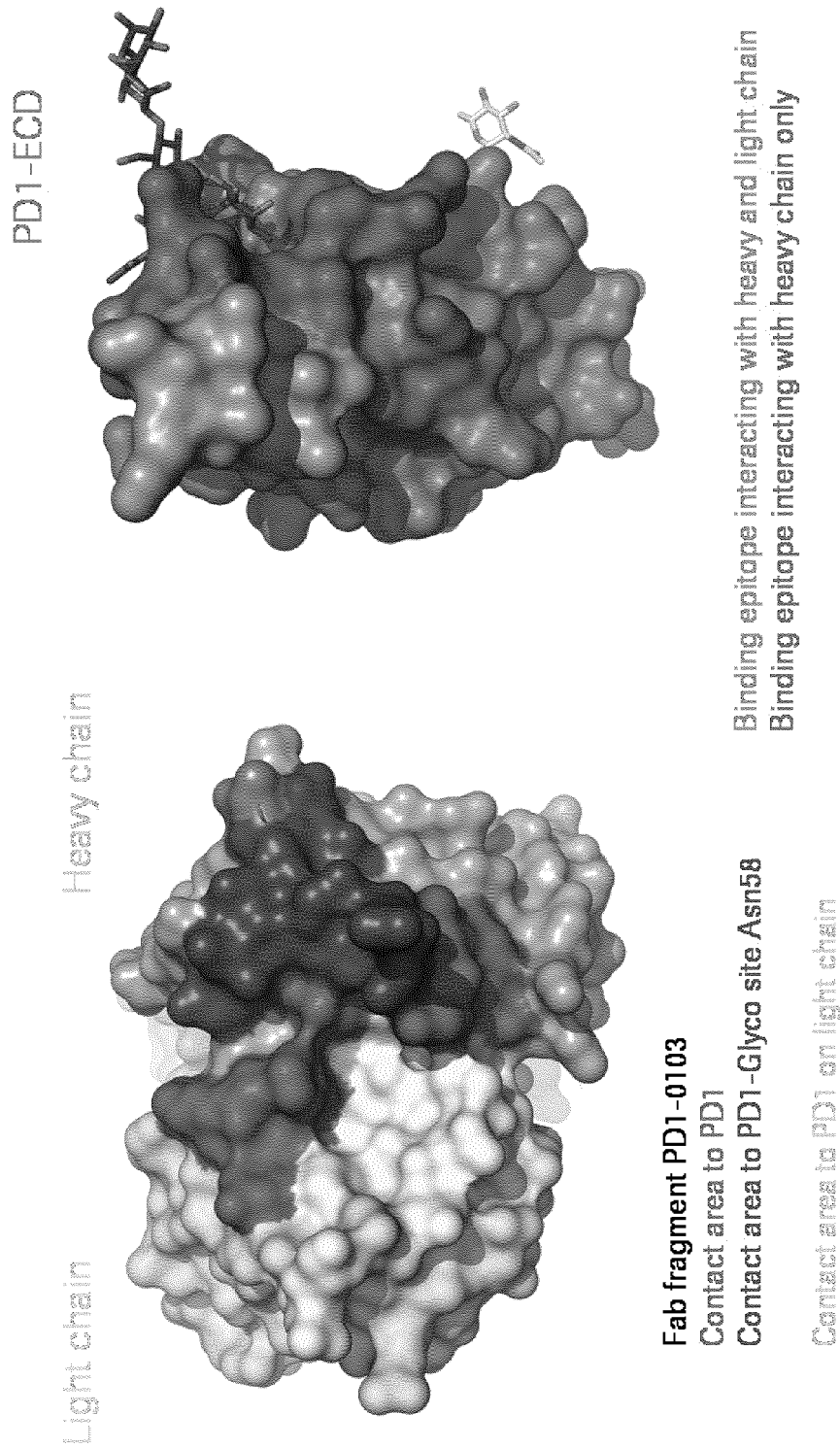
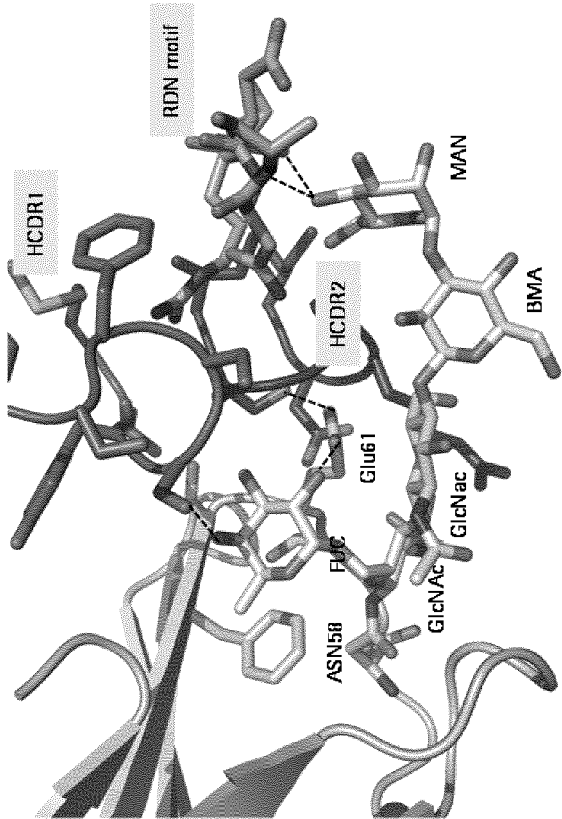


Figure 9

PD1 – Glycosylation at Asn58 (core sugar chain)	HC
First GlcNAc	Arg56, Asp57
FUC	Ser30, Ser31, Tyr32, Gly53, Gly54,
Second GlcNAc	Gly54, Gly55, Arg56
BMA	Gly54, Asn74
MAN	Gly53, Gly54, Gly55, Arg72, Asp73, Asn74



[GlcNAc] = NGA = N-acetyl-beta-D-galactosamine = 2-(acetylamino)-2-deoxy-beta-D-galactopyranose

[FUC] = alpha-L-fucose

[BMA] = beta-D-mannopyranose

[MAN] = alpha-D-mannopyranose

Figure 10

- Contacts calculated by PISA
- Grey: PD-1 residues in contact with the antibody

➤ PD1

```

      .   30   .   40   .   50   .   60   .   70
PGWFLDSPDRPWNPPTFFSPALLVVTEGDNATFTCSFSNTSESFVLNWMIRM
      ▲▲▲
      .   80   .   90   .   100  .   110  .   120
SPSNQTDKLAALFPEIDRSQPGQDCRFRVTQLPNGRDFHMSVVRRRNDSGT
      ▲
      .   130  .   140  .   150  .   160  .   170
YLCGALSLAPKAAIKESLRAELRVTTERRAEVPTAHPSPPRPAQGFQTLV
      ▲▲▲▲▲▲▲
```

▲ = side chain interaction
■ = main chain interaction

Figure 12

- Yellow: CDRs
- Red: Antibody residues in contact with the antigen
- Contacts calculated by PISA

► PD1-0103_LC

. 10 . 20 . 30 . 40 . 50
 KIVLTQSPASLPVSLGQRATISCRASESVDTSNSEFIHWYQQQRFPGQSPKRL
 ▲ ▲ ▲

LIYRSSTLESGVPA⁶⁰RFSGSGSR⁷⁰TDFTLTID⁸⁰VEADDVAT⁹⁰YCCQ¹⁰⁰NYD¹¹⁰VP¹²⁰FW

TFGGGTKLEIK . 110

- ▲ = side chain interaction
- = main chain interaction

Figure 13A

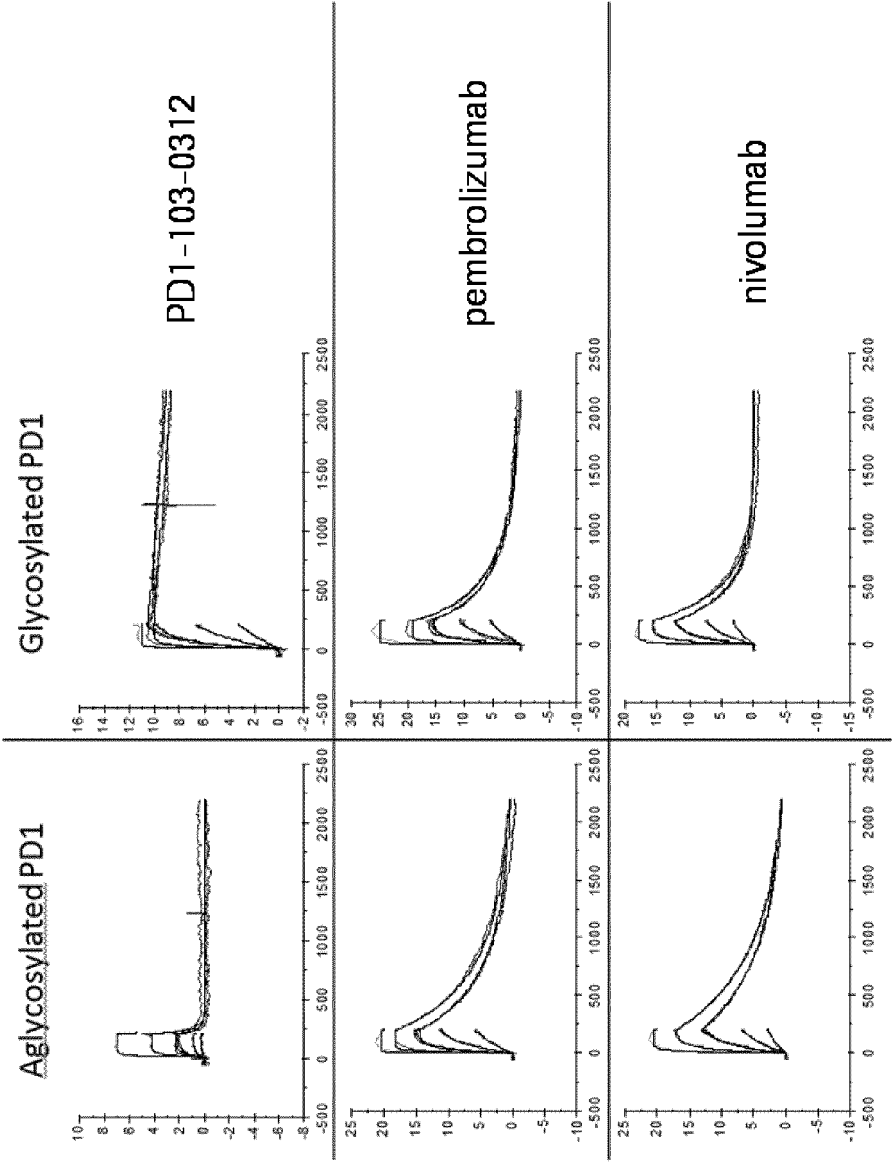


Figure 13B

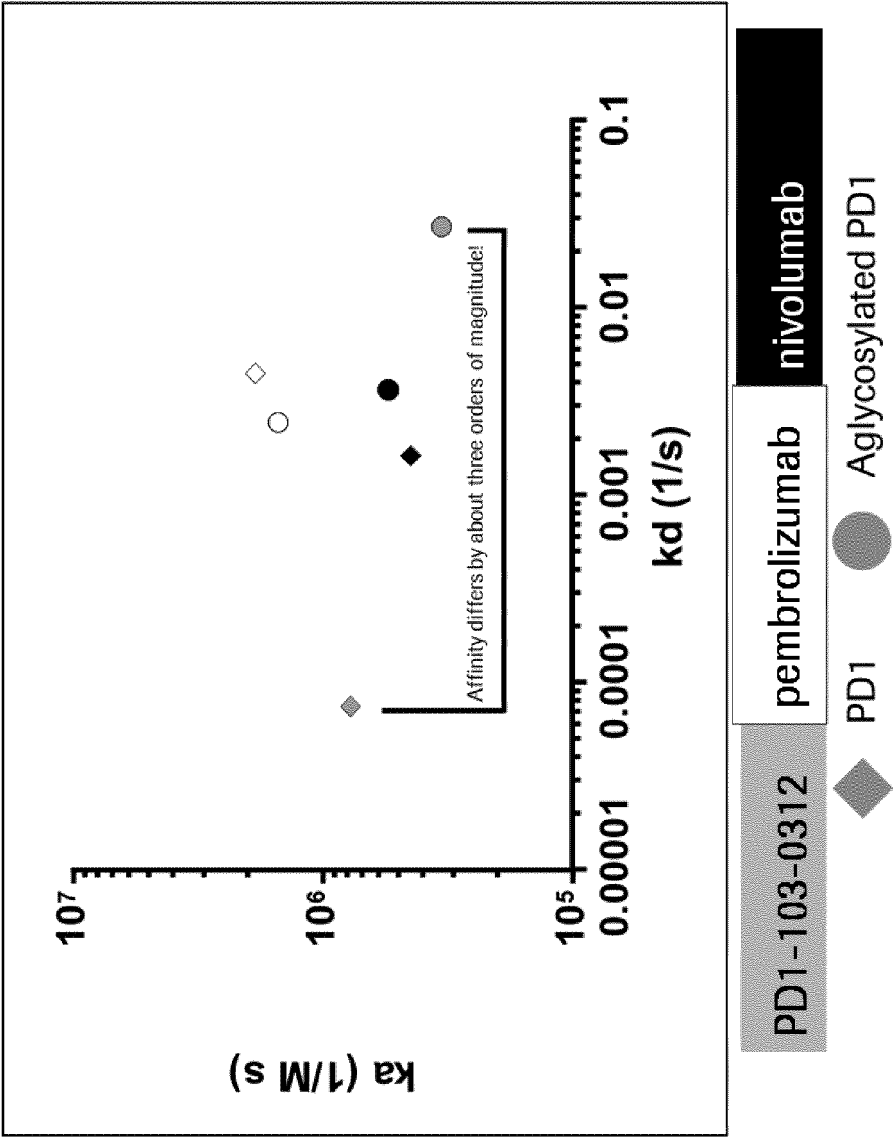


Figure 14A

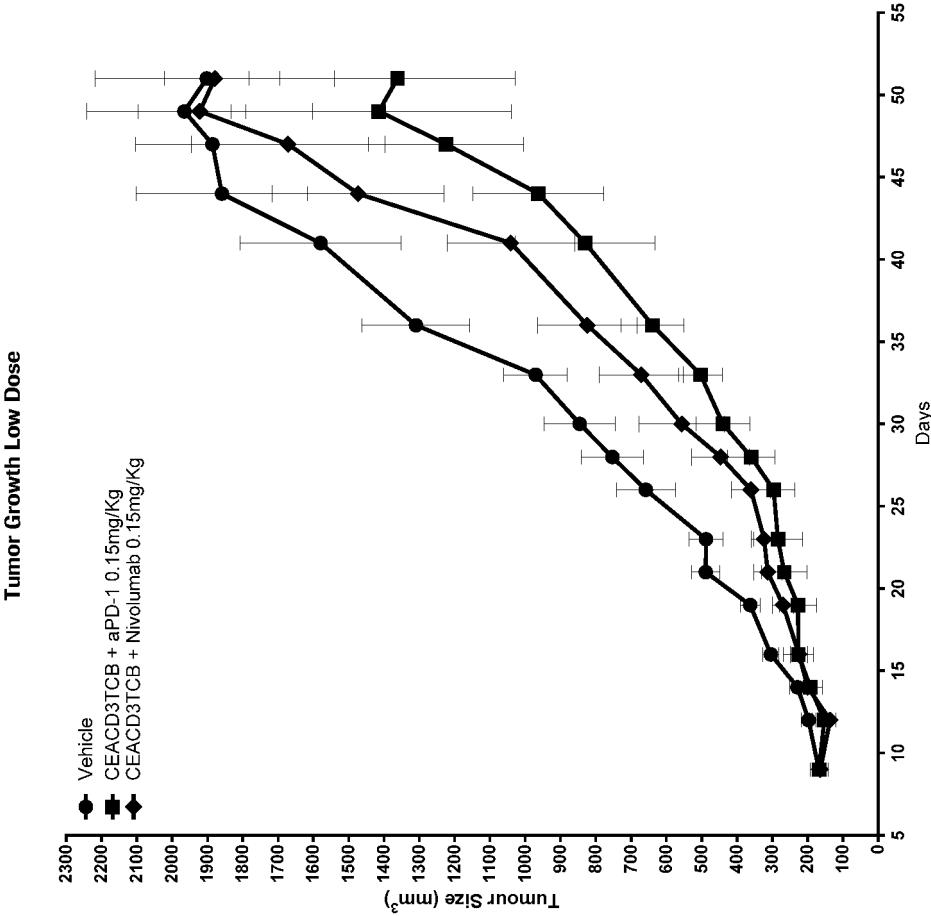


Figure 14B

