

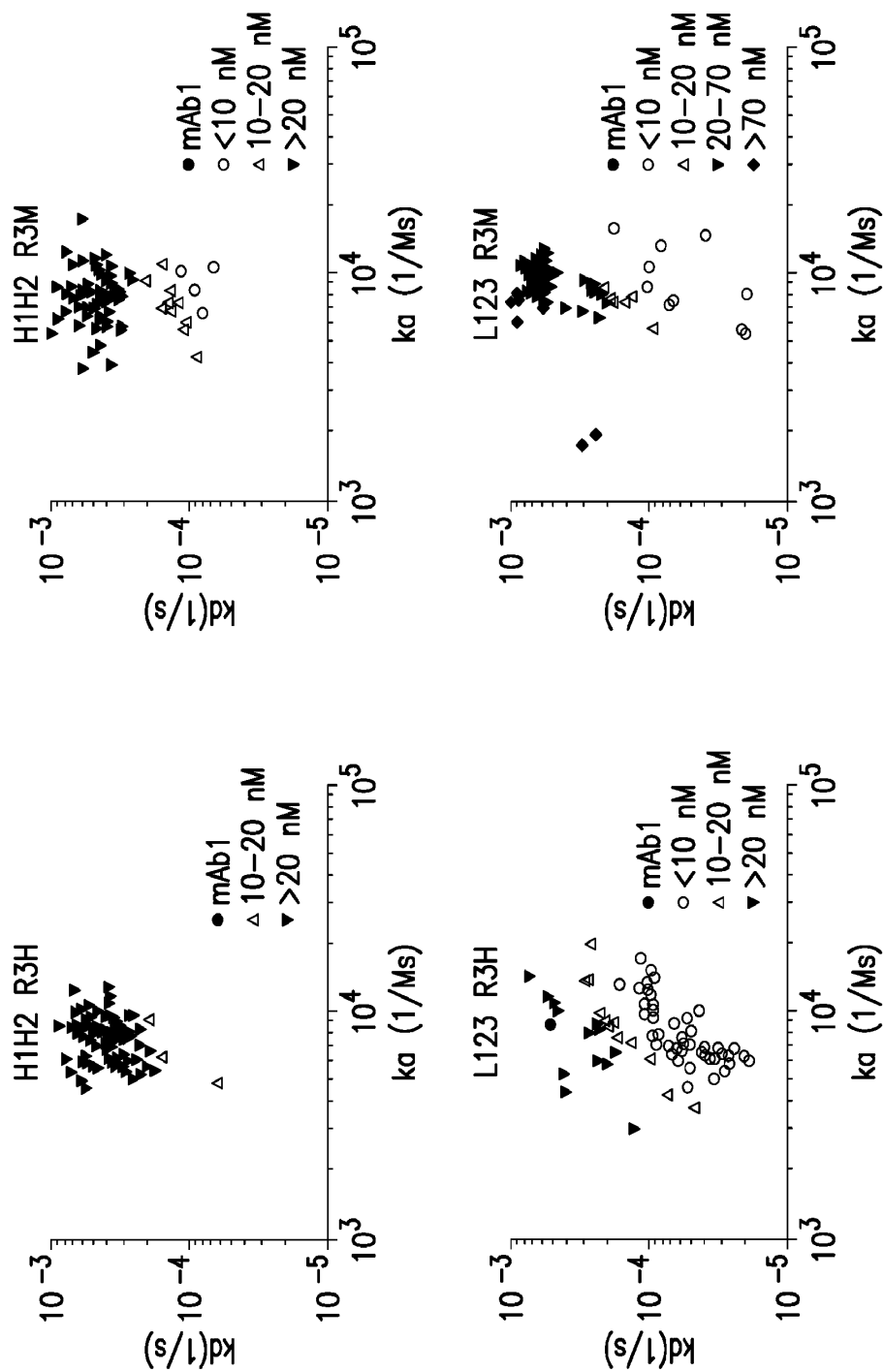


FIG.1

|            | <div>Retained Binding</div> <div>Weak Binding</div> <div>No Binding</div> |    |    |    |    |     |      |      |      |      |      |      |      |      |      |  |
|------------|---------------------------------------------------------------------------|----|----|----|----|-----|------|------|------|------|------|------|------|------|------|--|
| Position   | 95                                                                        | 96 | 97 | 98 | 99 | 100 | 100A | 100B | 100C | 100D | 100E | 100F | 100G | 100H | 100I |  |
| Amino Acid | D                                                                         | S  | P  | F  | L  | L   | D    | D    | Y    | Y    | Y    | Y    | Y    | Y    | M    |  |
| huCD137    |                                                                           |    |    |    |    |     |      |      |      |      |      |      |      |      |      |  |
| mCD137     |                                                                           |    |    |    |    |     |      |      |      |      |      |      |      |      |      |  |

FIG.2

LQDPCSNCPAGTFCDNNRNQIC  
SPCPPNSFSSAGGQRTCDICRQCKGVFRTTRKECSSTSNAEC  
DCTPGFHCLGAGCSMCEQDCKQGQELTKKGCK  
DCCFGTFNDQKRGICRPWTNCSLDGKSVLVNGTKERDVVCG

**mAb1**

LQDPCSNCPAGTFCDNNRNQIC  
SPCPPNSFSSAGGQRTCDICRQCKGVFRTTRKECSSTSNAEC  
DCTPGFHCLGAGCSMCEQDCKQGQELTKKGCK  
DCCFGTFNDQKRGICRPWTNCSLDGKSVLVNGTKERDVVCG

**mAb4**

LQDPCSNCPAGTFCDNNRNQIC  
SPCPPNSFSSAGGQRTCDICRQCKGVFRTTRKECSSTSNAEC  
DCTPGFHCLGAGCSMCEQDCKQGQELTKKGCK  
DCCFGTFNDQKRGICRPWTNCSLDGKSVLVNGTKERDVVCG

**mAb5**

**FIG.3A**

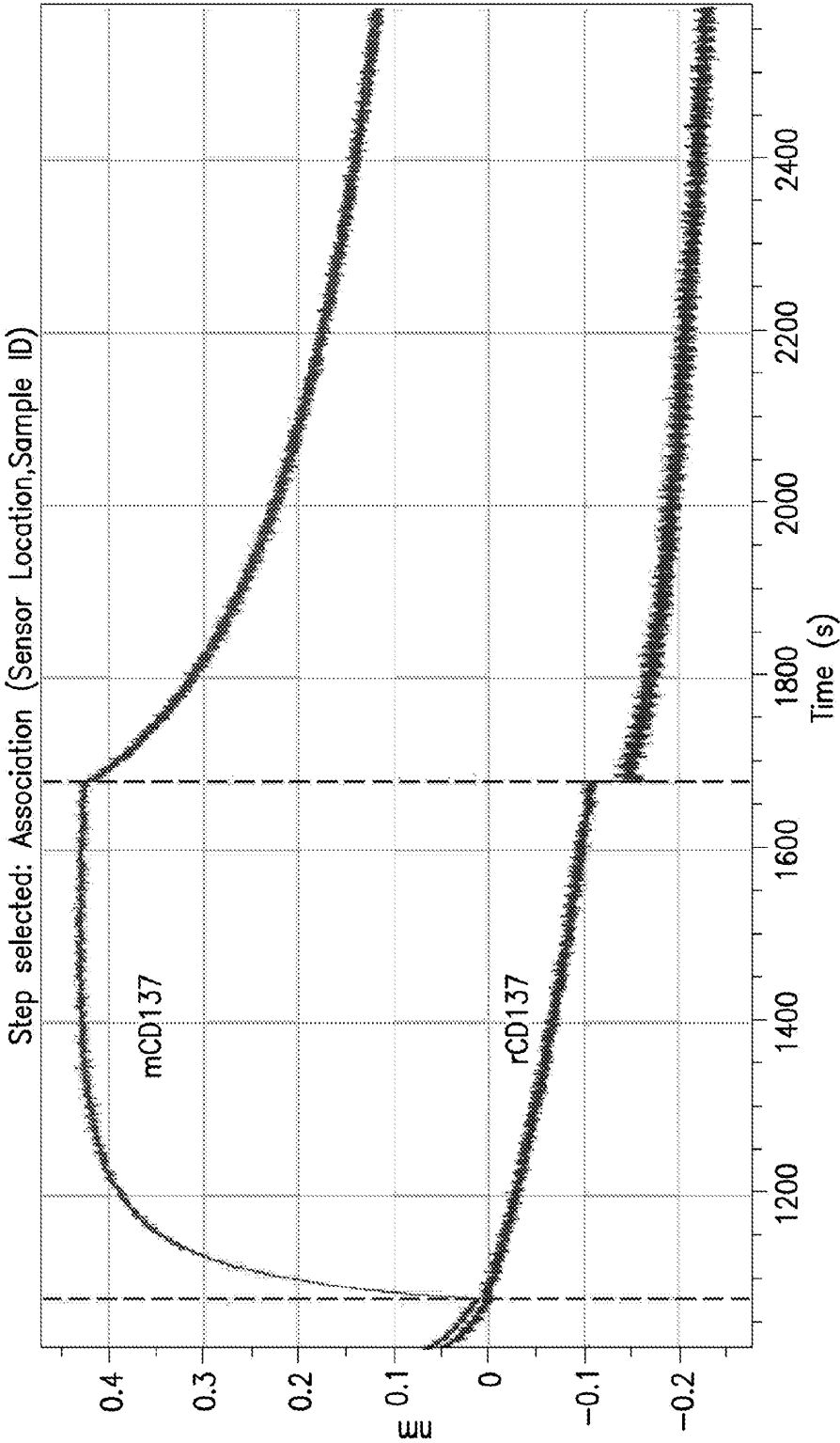


FIG.3B

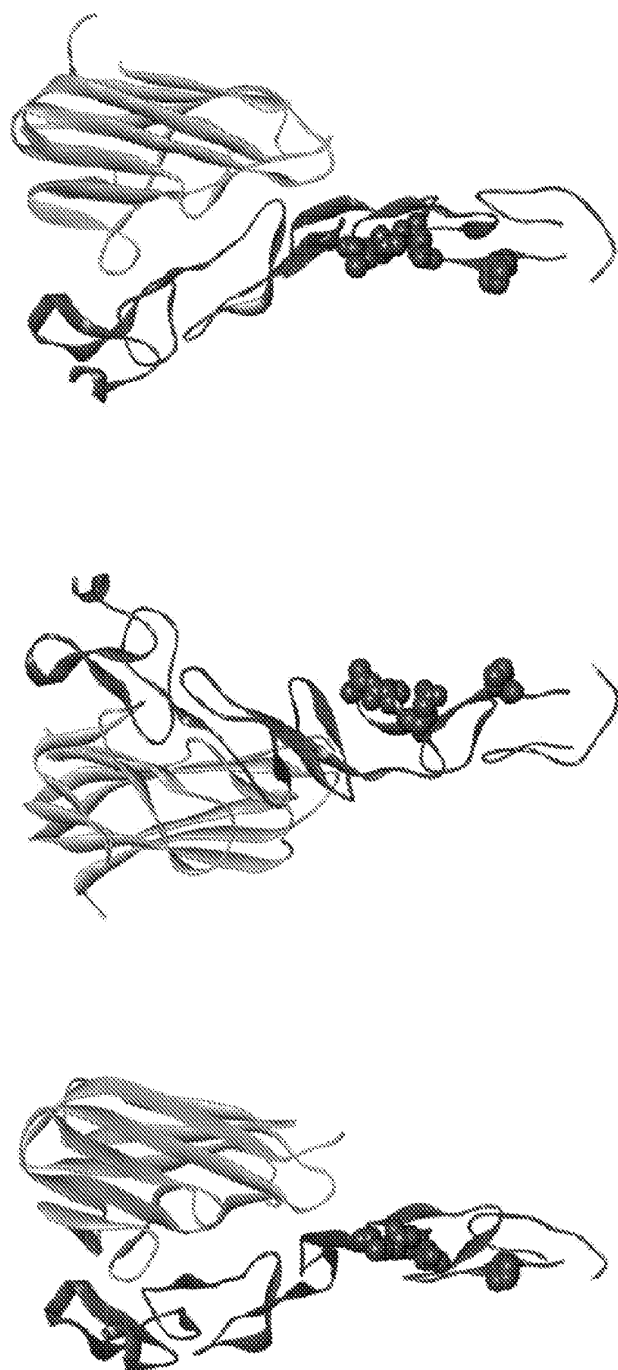


FIG. 3C

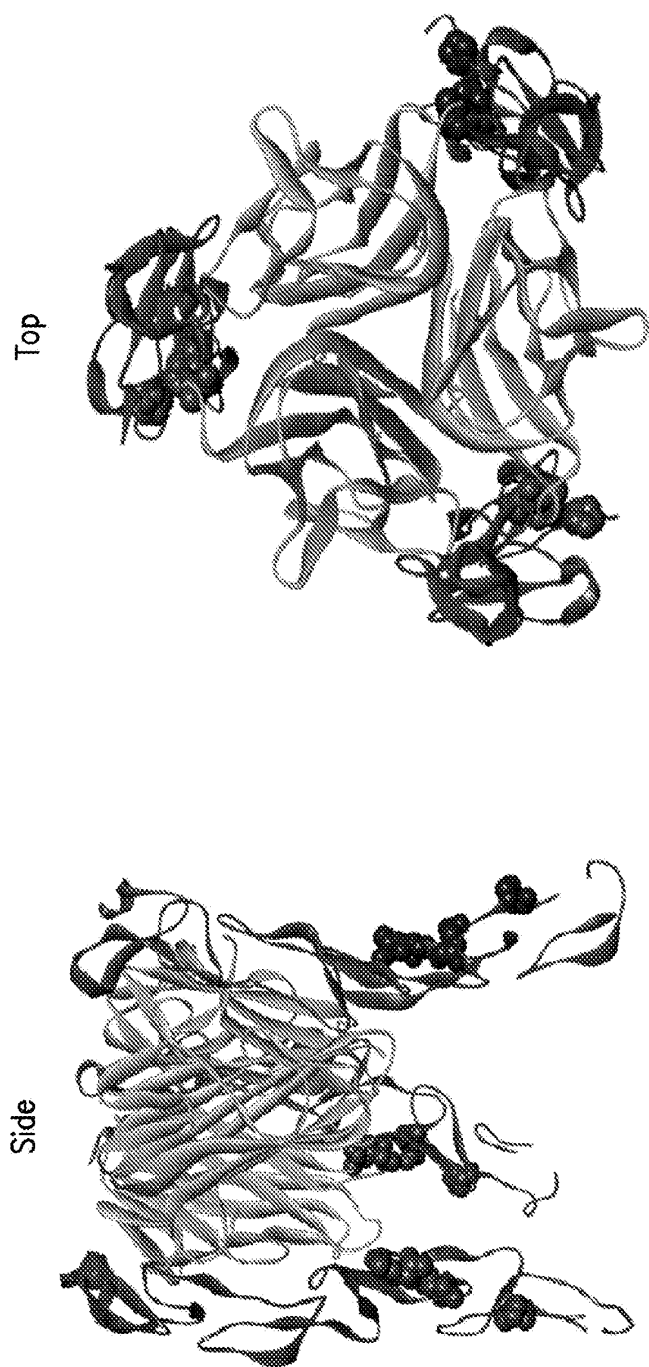


FIG. 3D

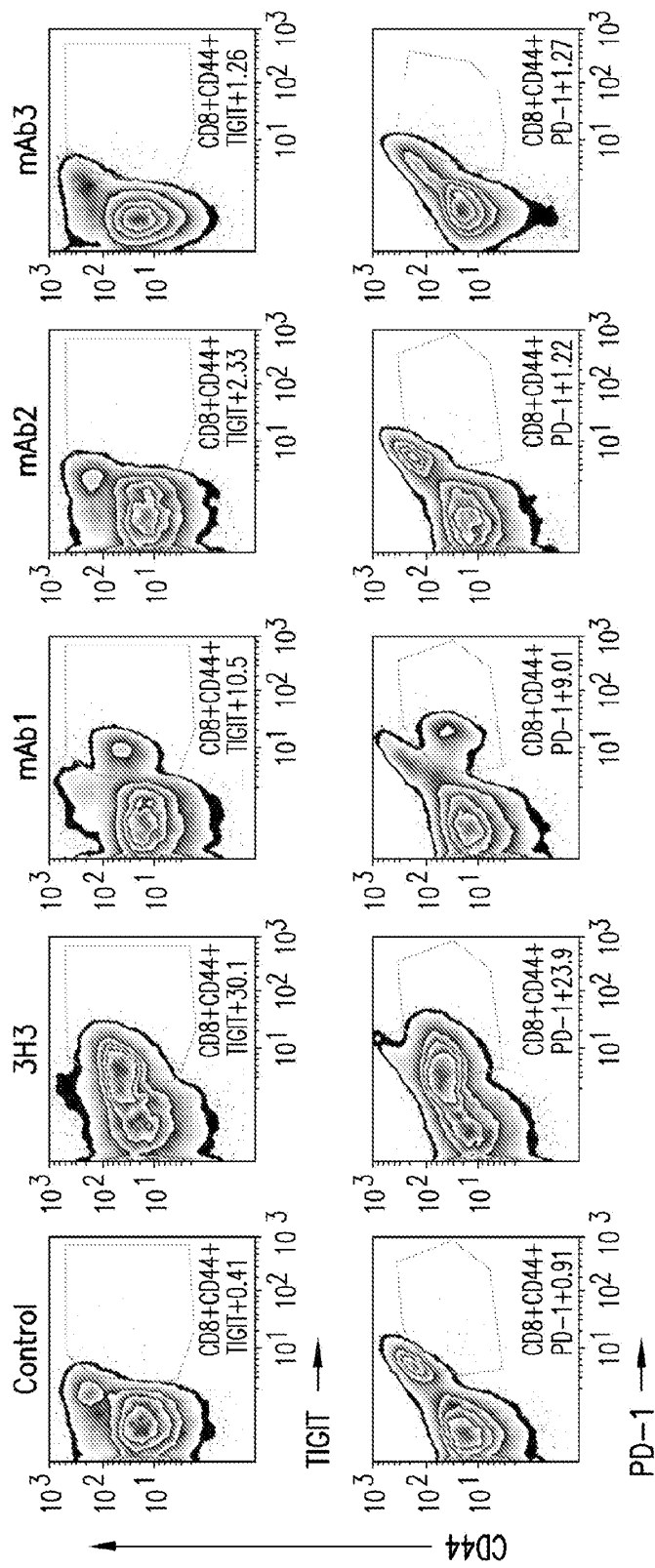


FIG. 4A

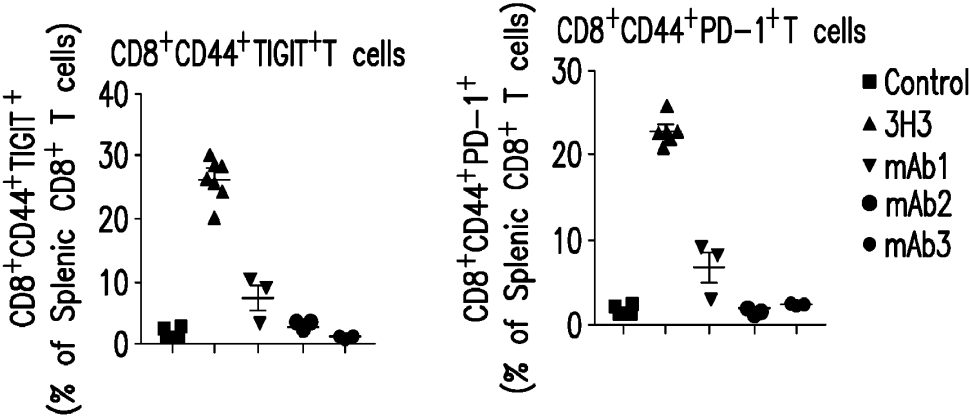


FIG.4B

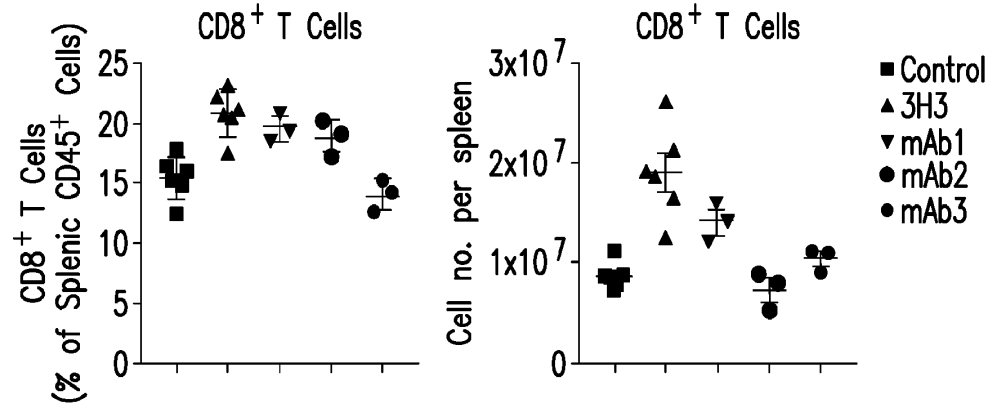


FIG.4C

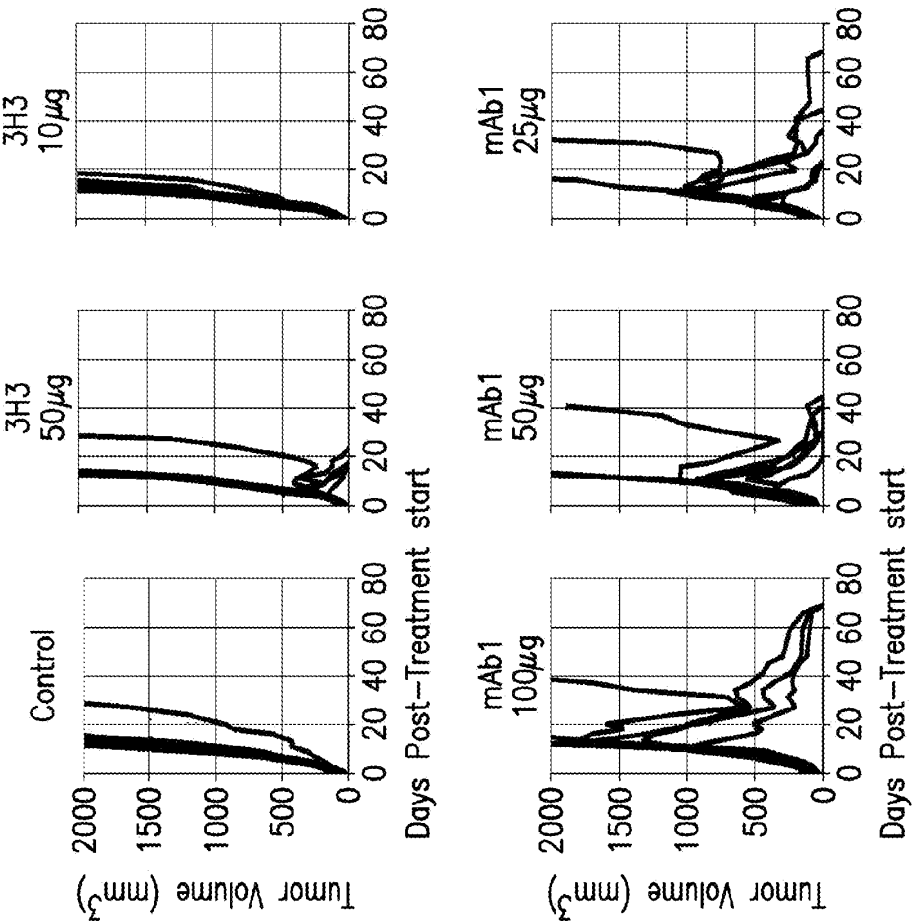
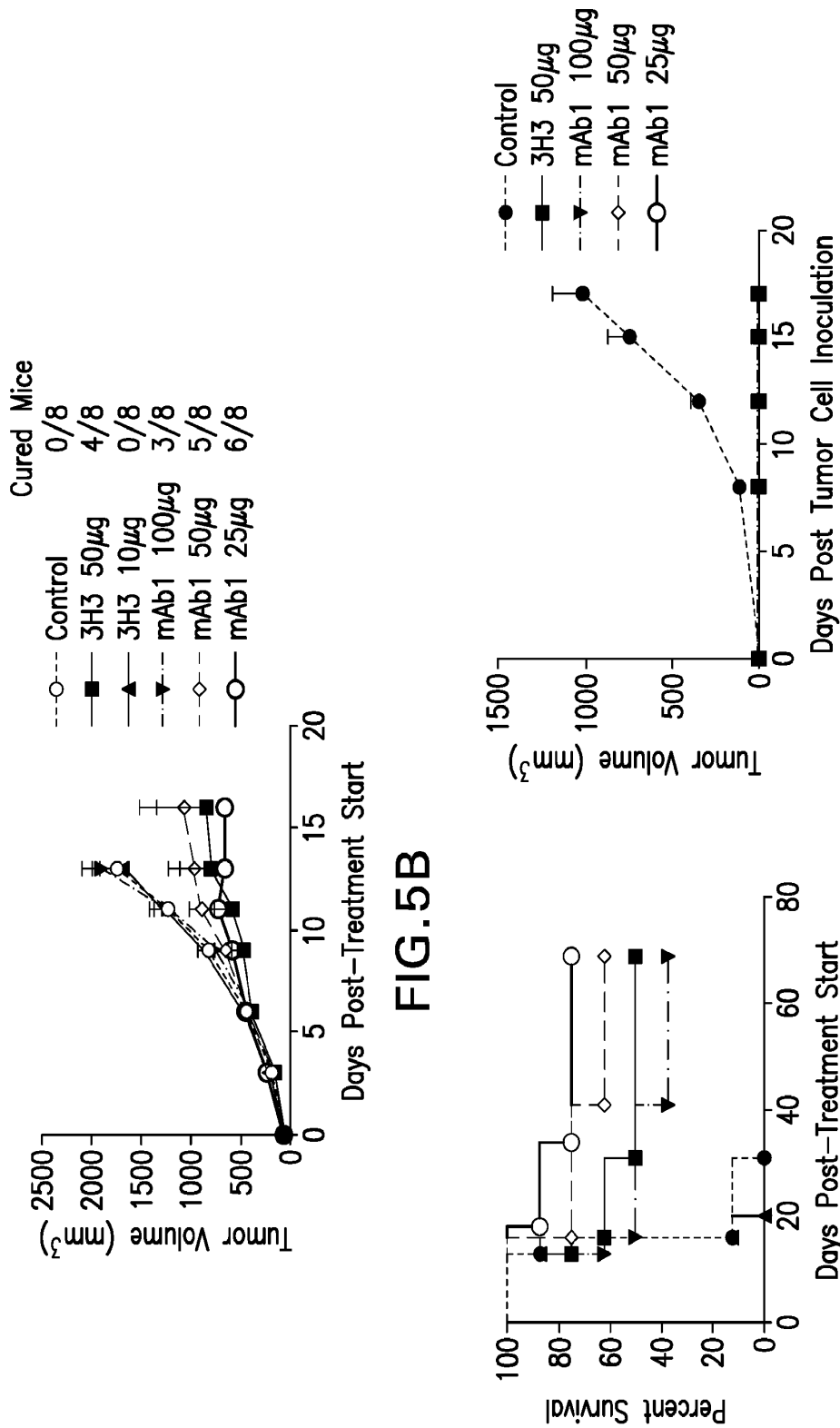


FIG.5A



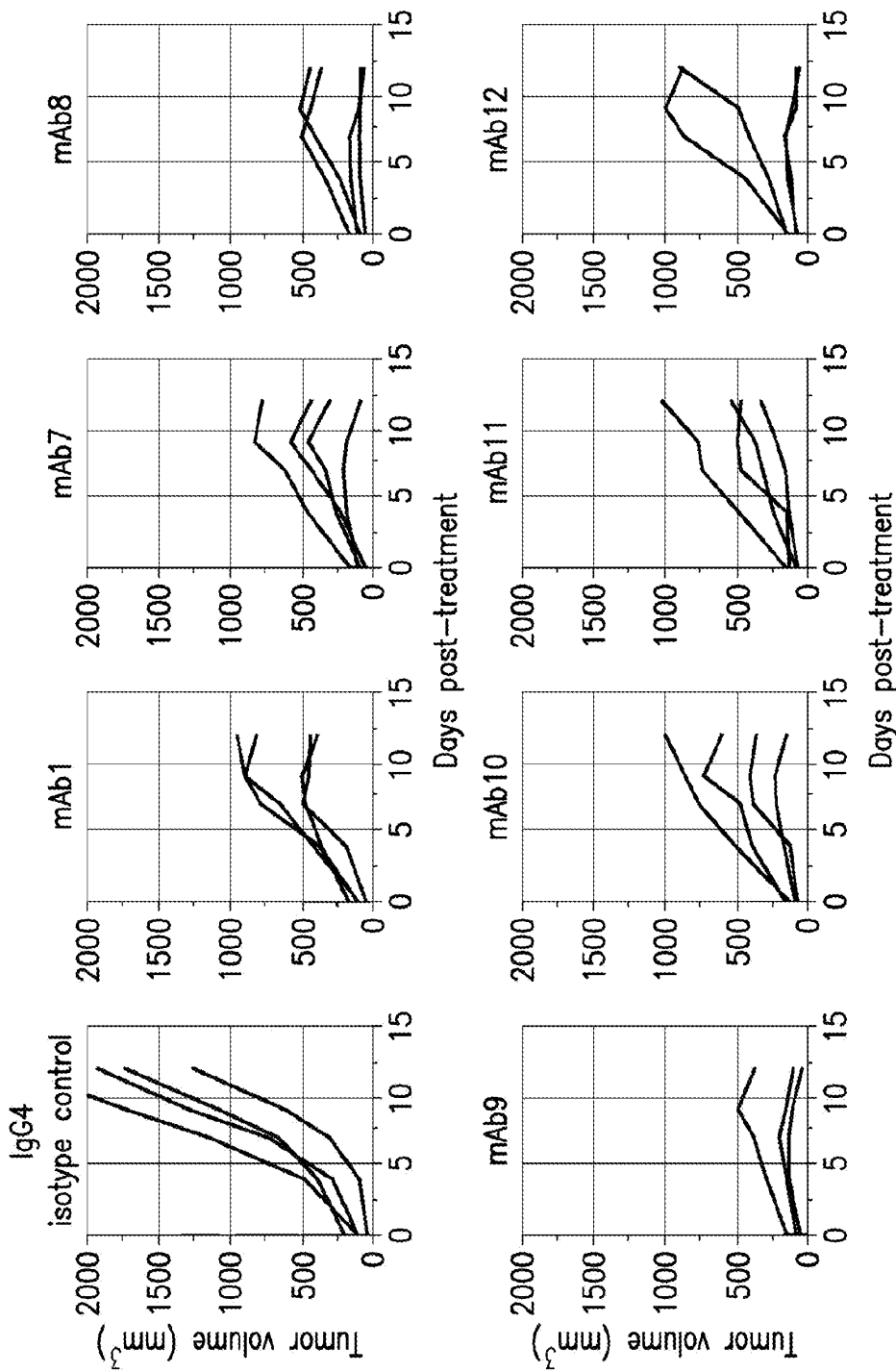


FIG. 6A

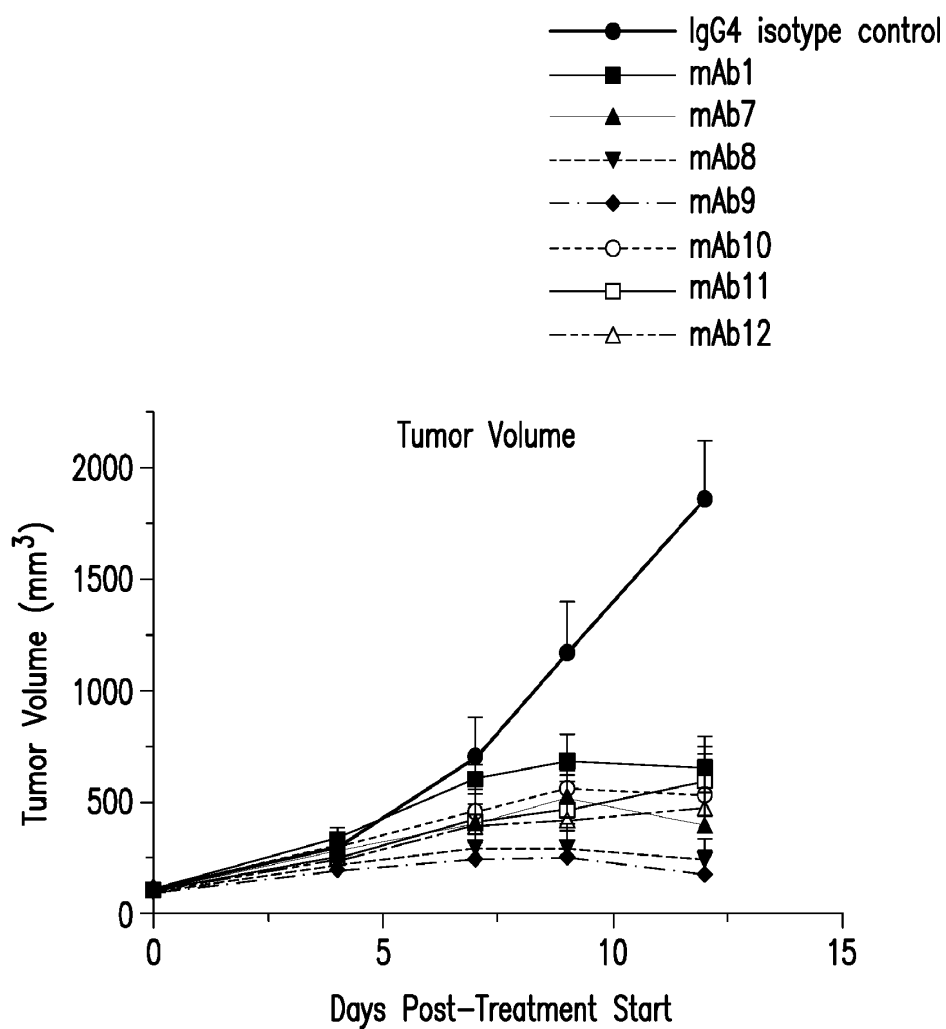


FIG.6B

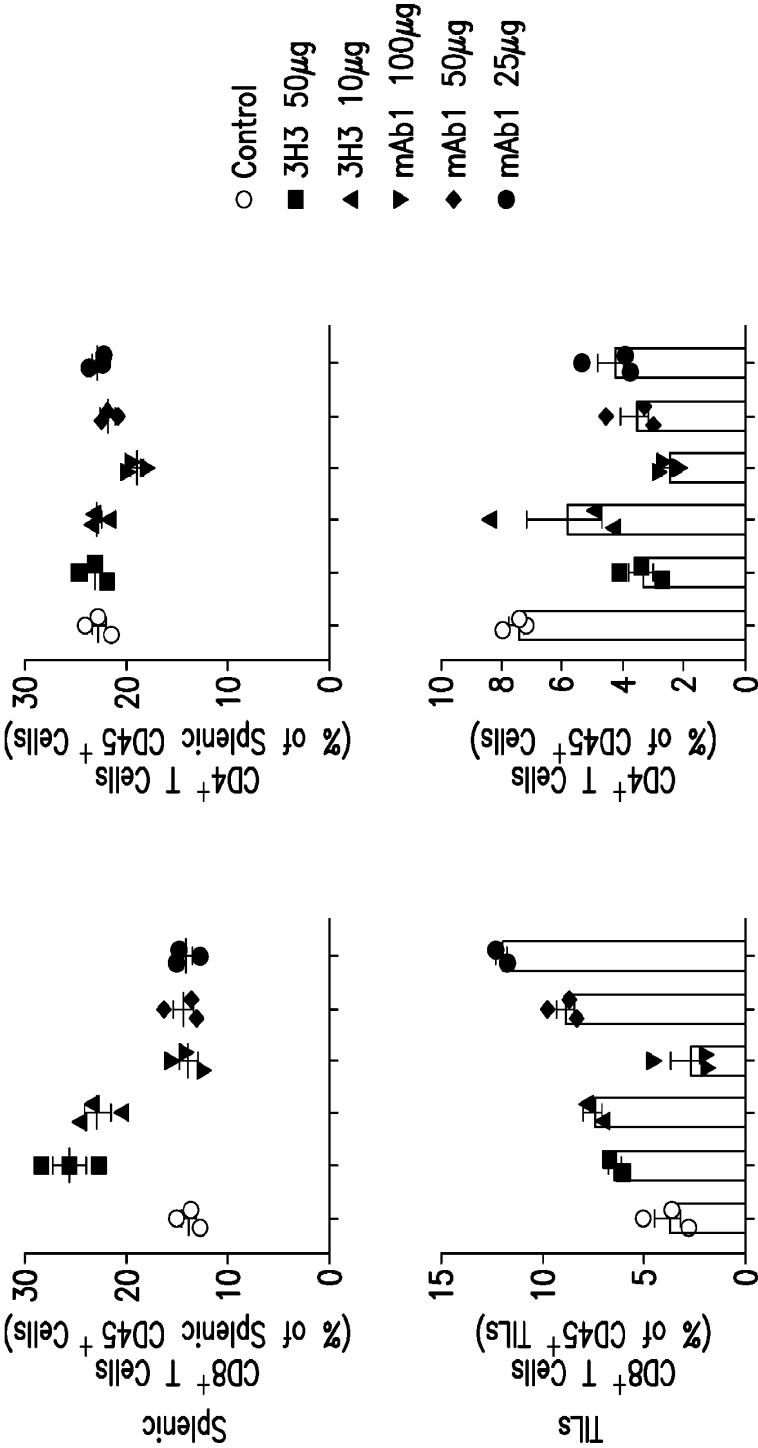


FIG.7

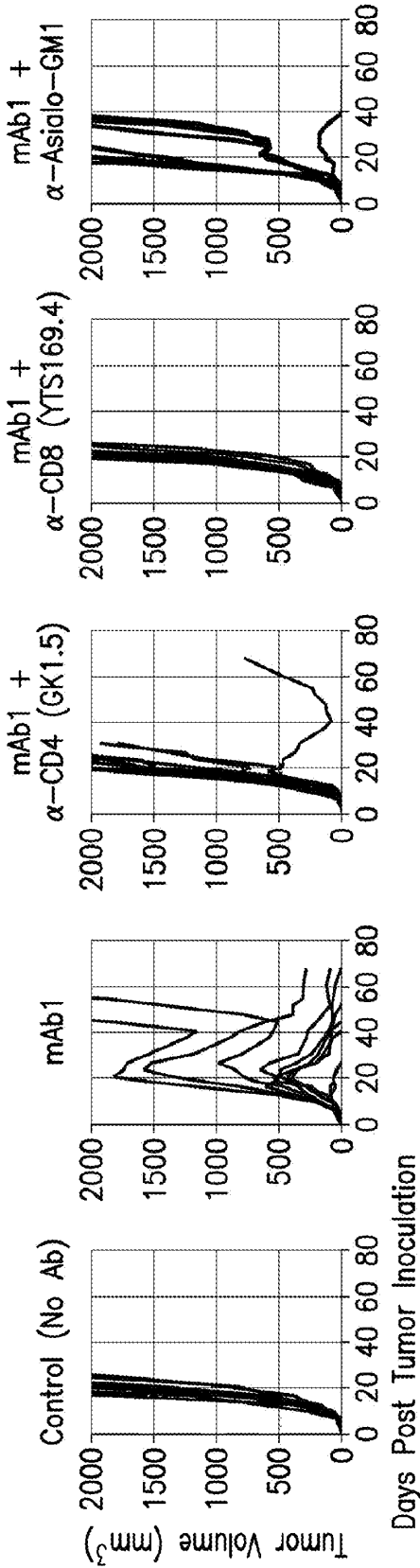


FIG.8

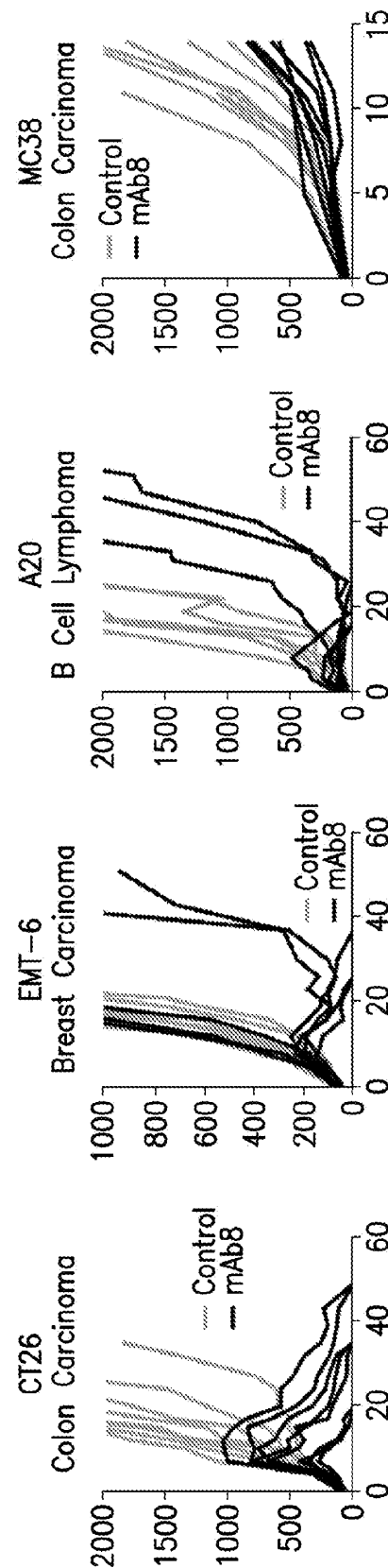


FIG.9

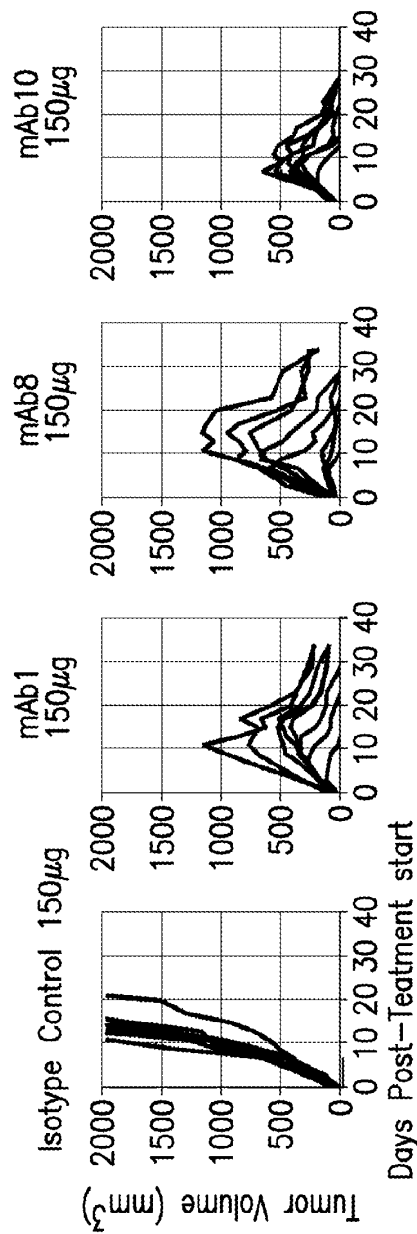


FIG. 10A

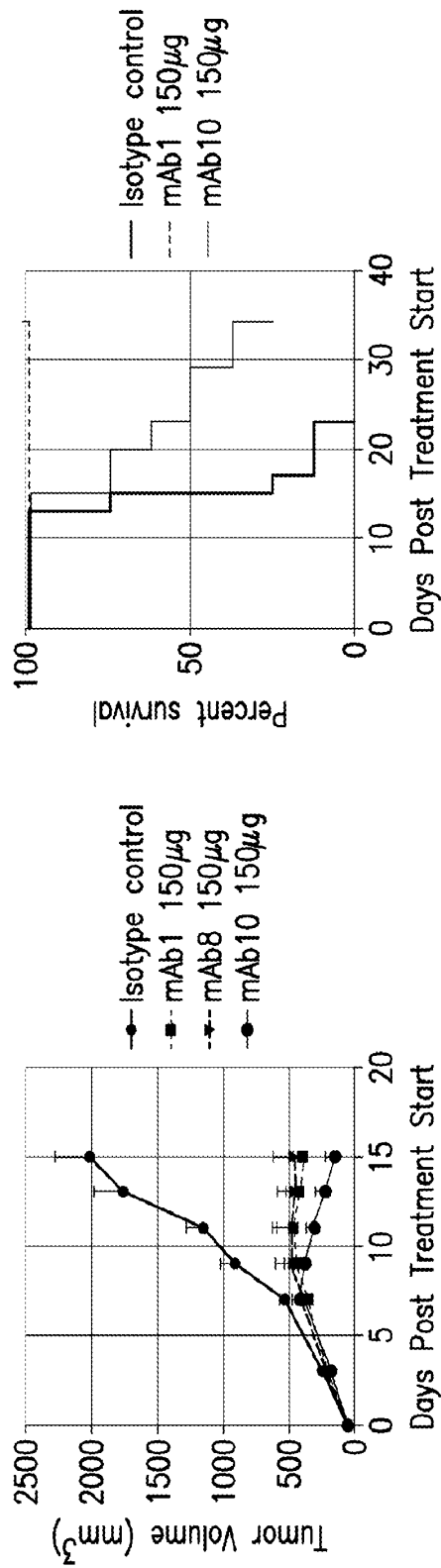
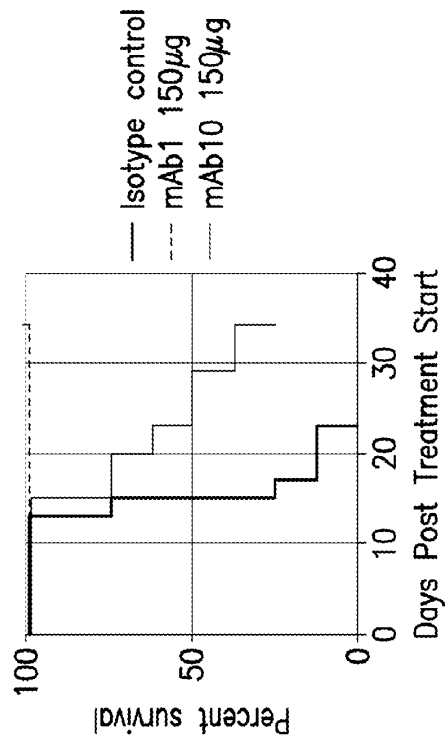


FIG. 10B



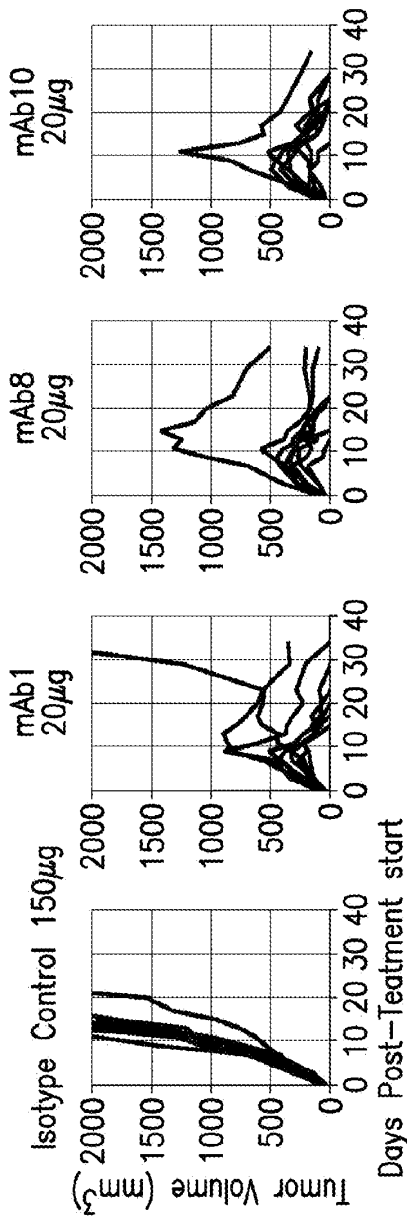


FIG. 11A

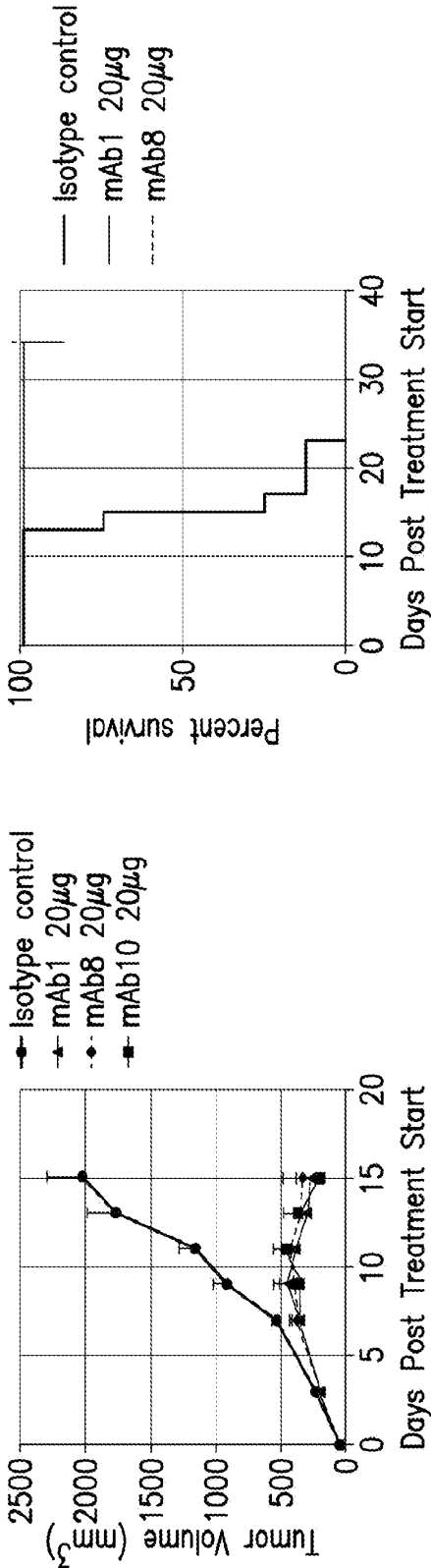


FIG. 11C

FIG. 11B

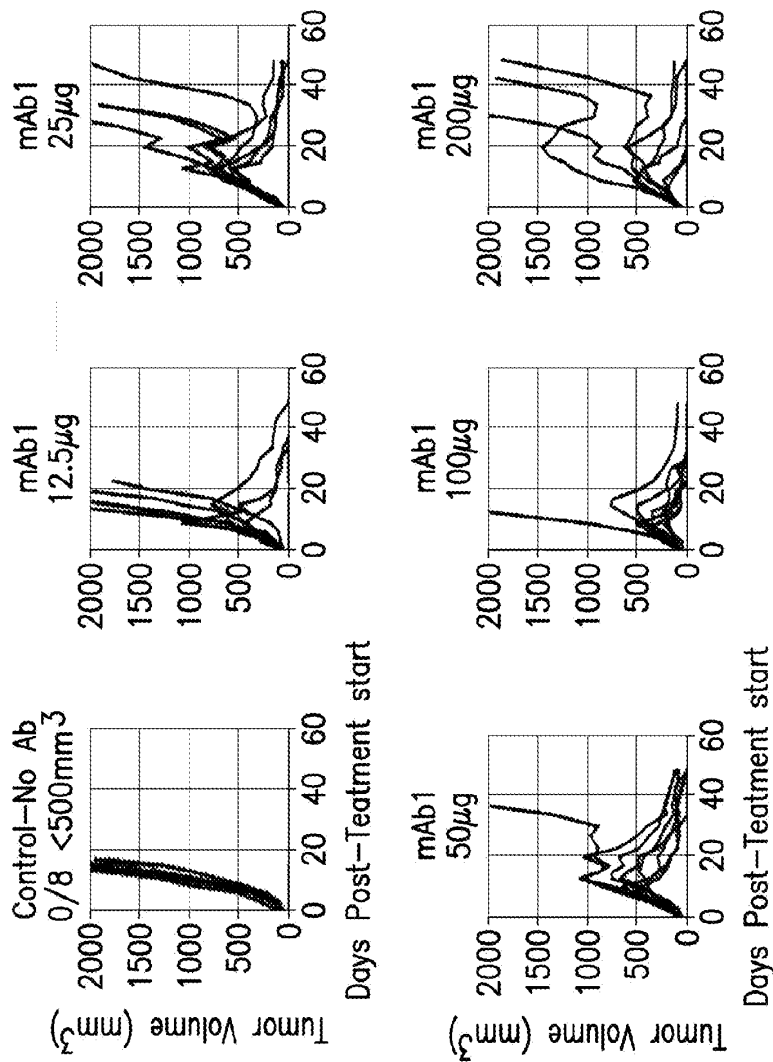


FIG. 12

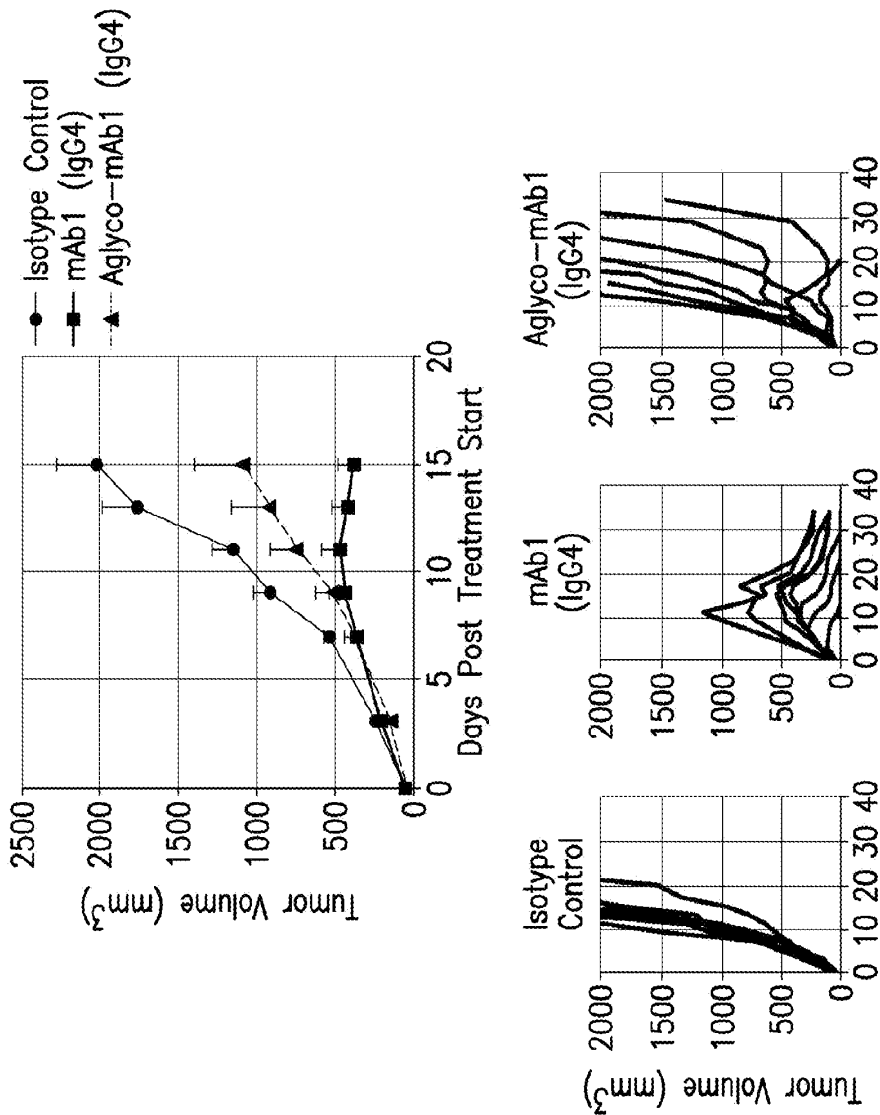


FIG.13A

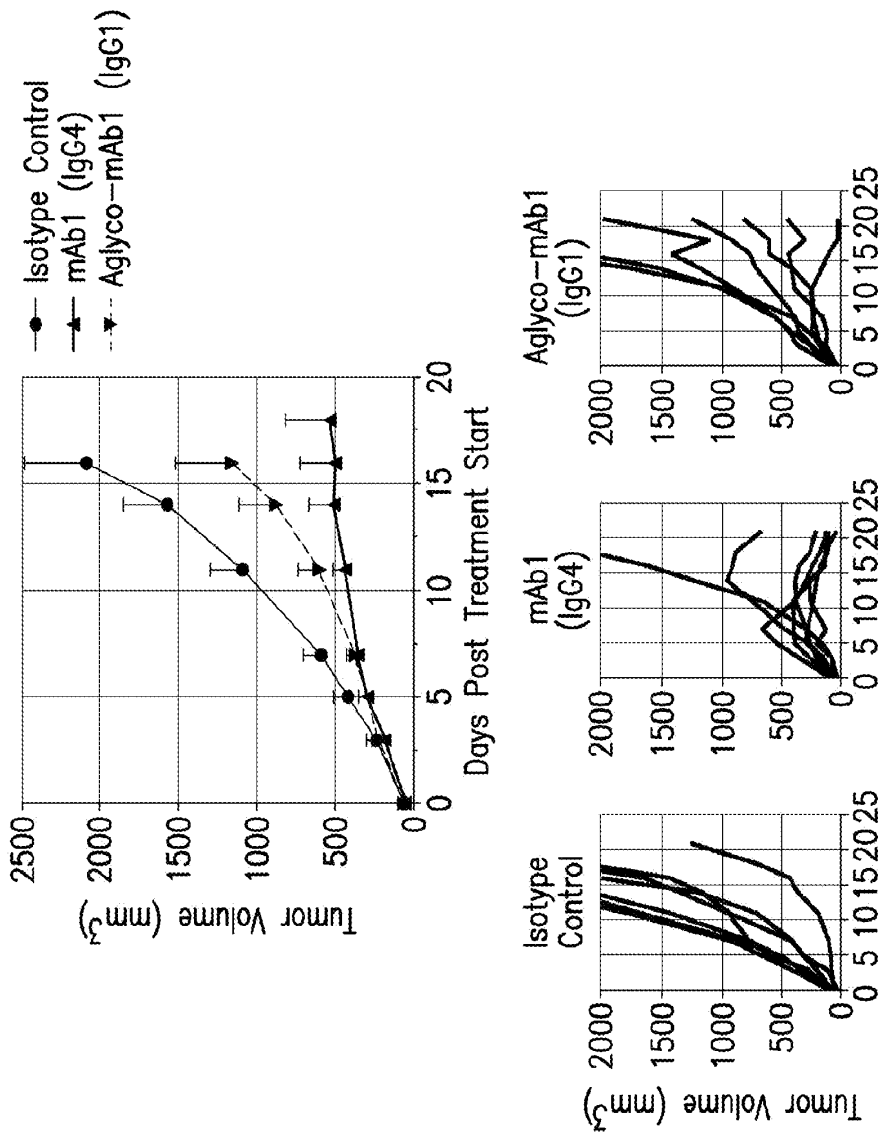


FIG. 13B

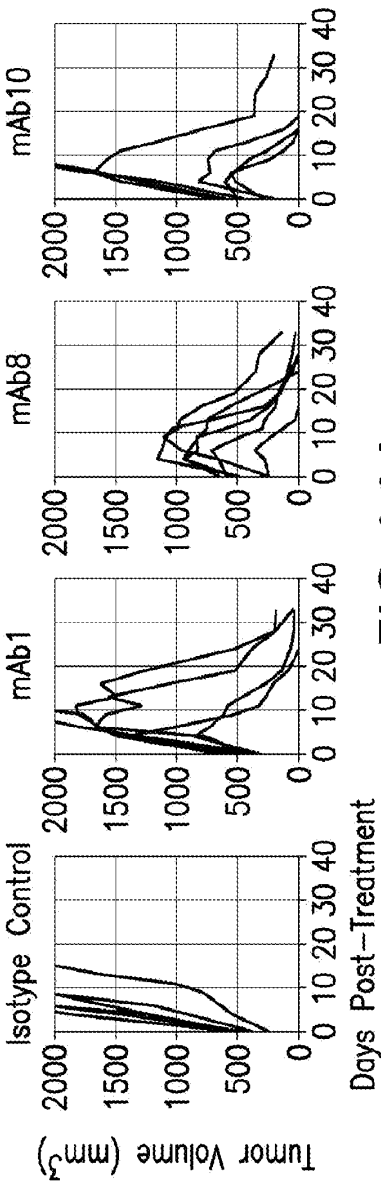


FIG. 14A

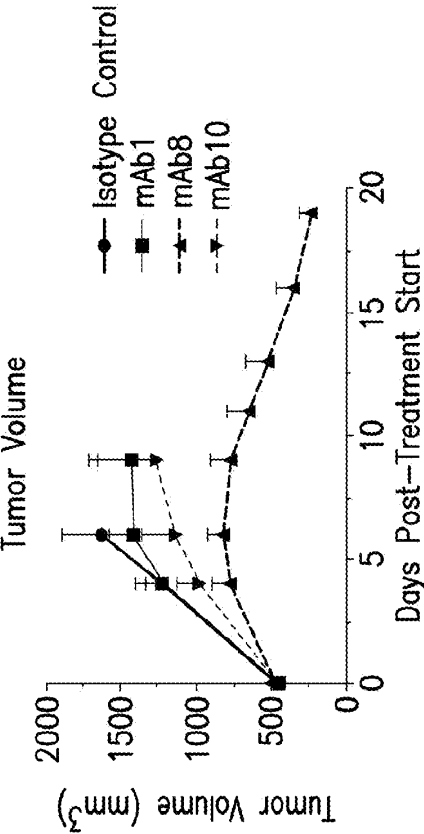


FIG. 14B

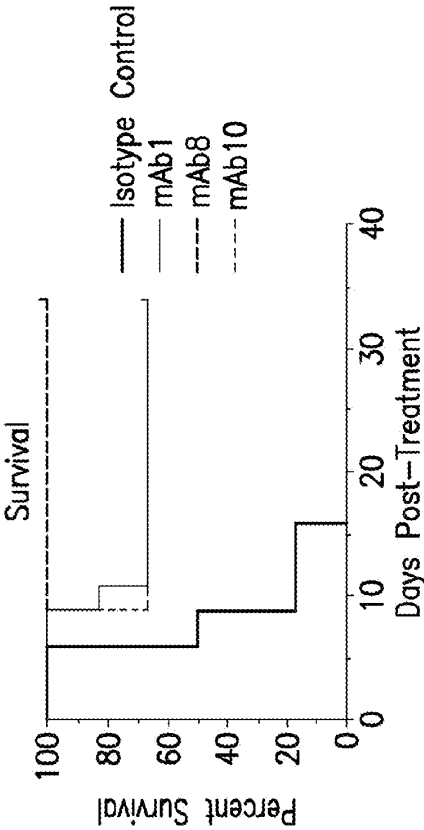


FIG. 14C

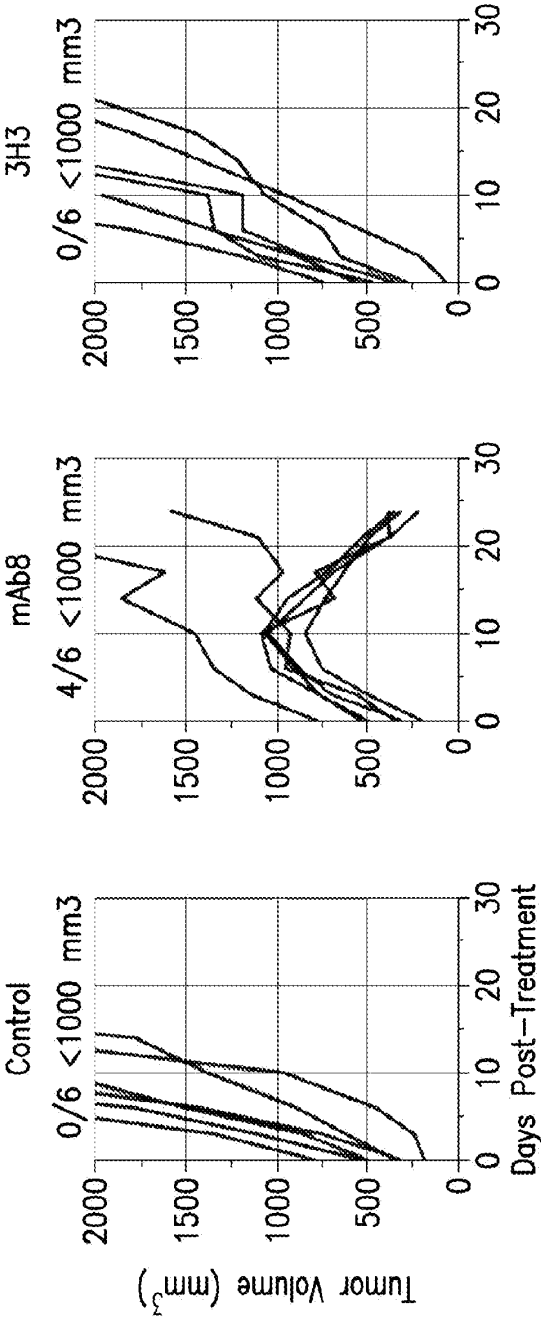


FIG.14D

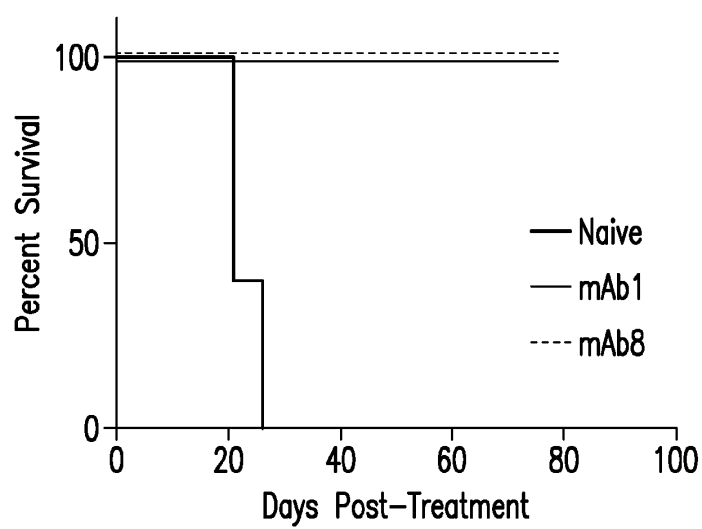


FIG. 15

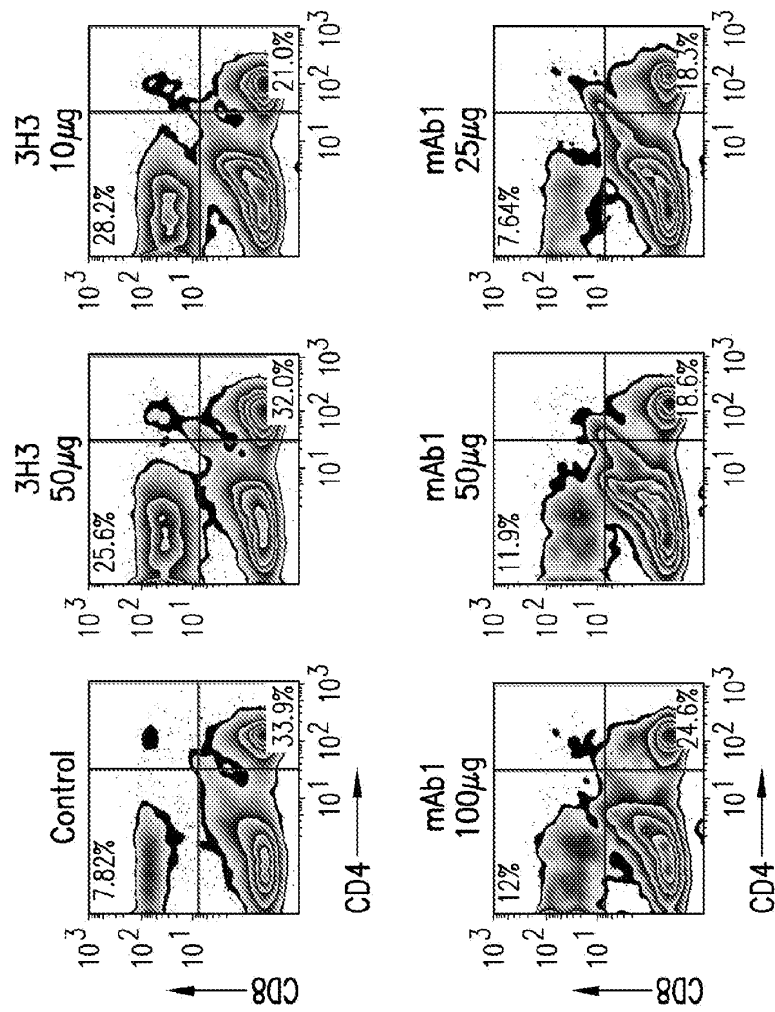


FIG.16A

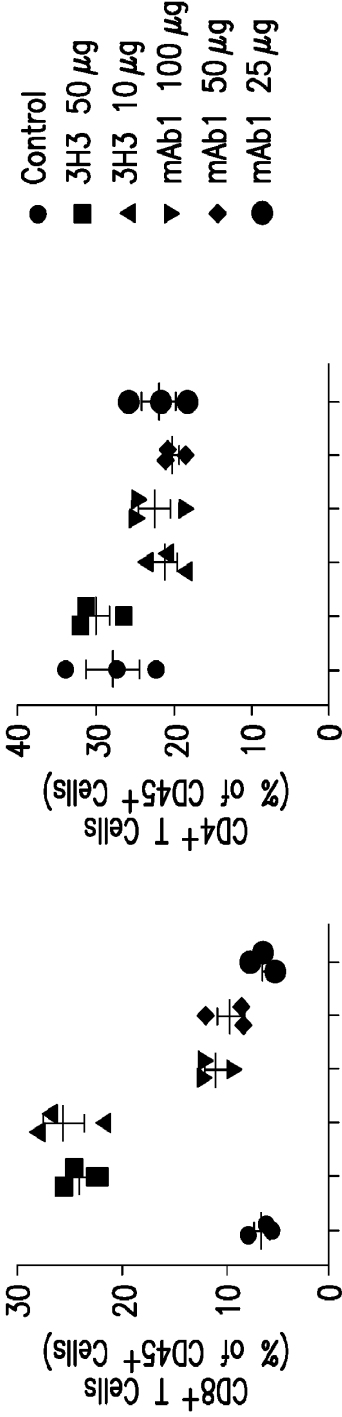


FIG.16B

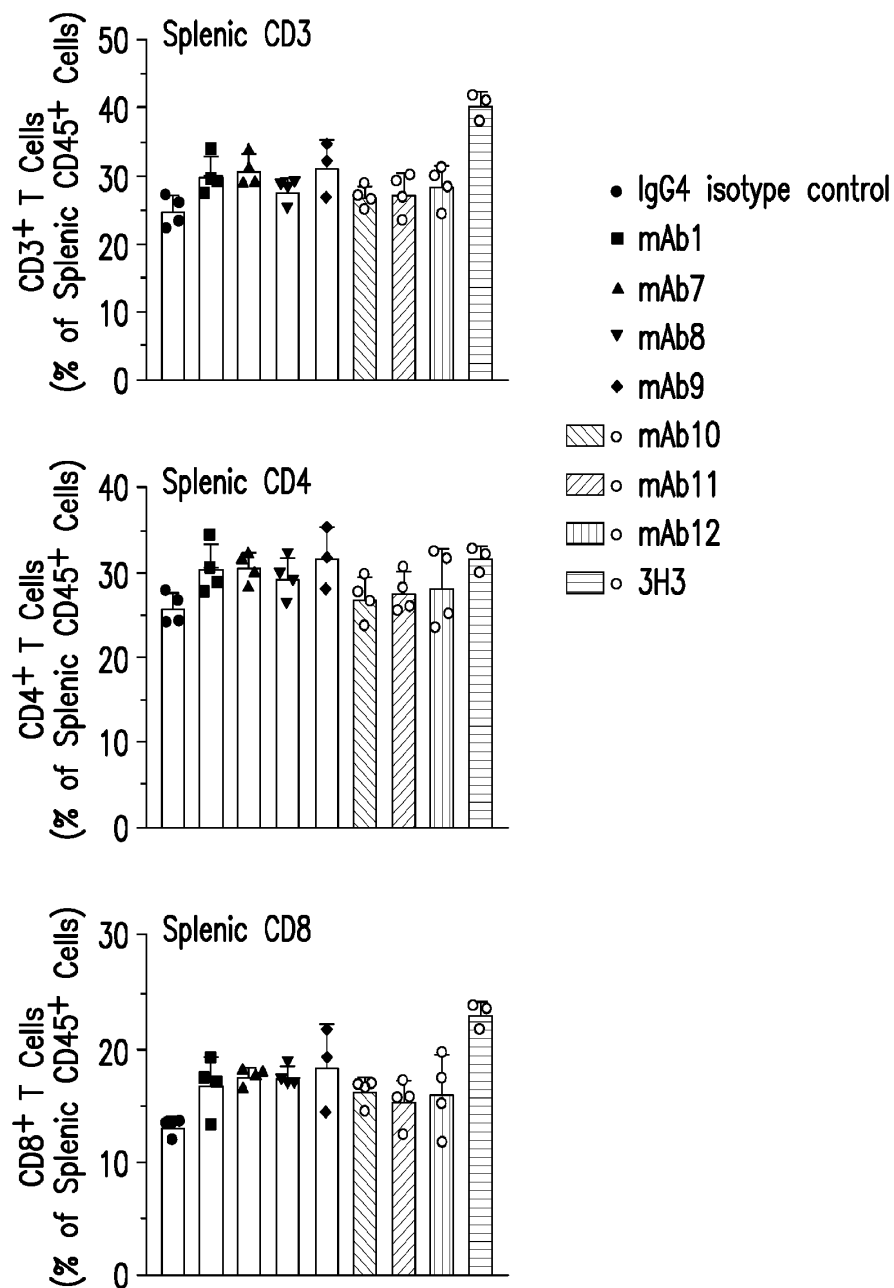


FIG.17A

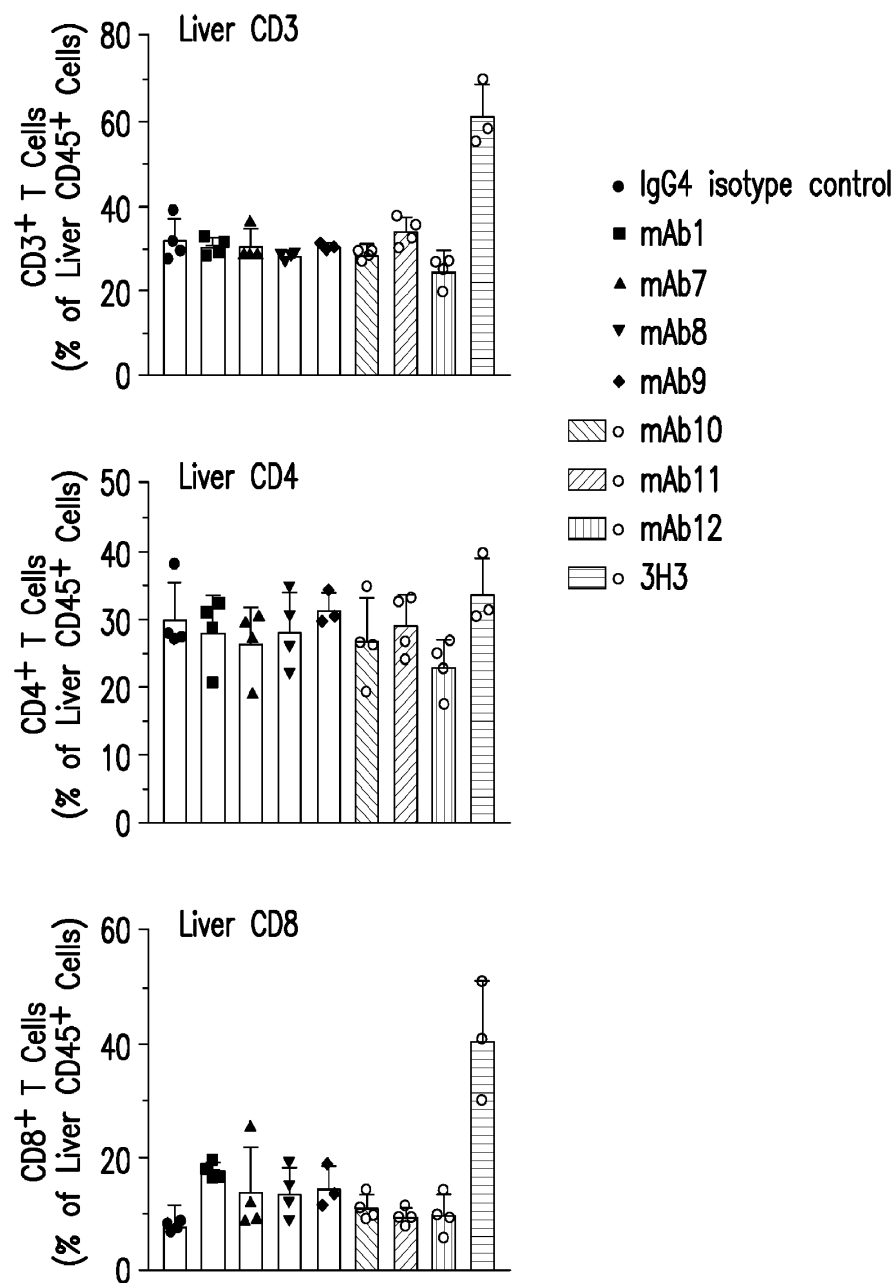


FIG.17B

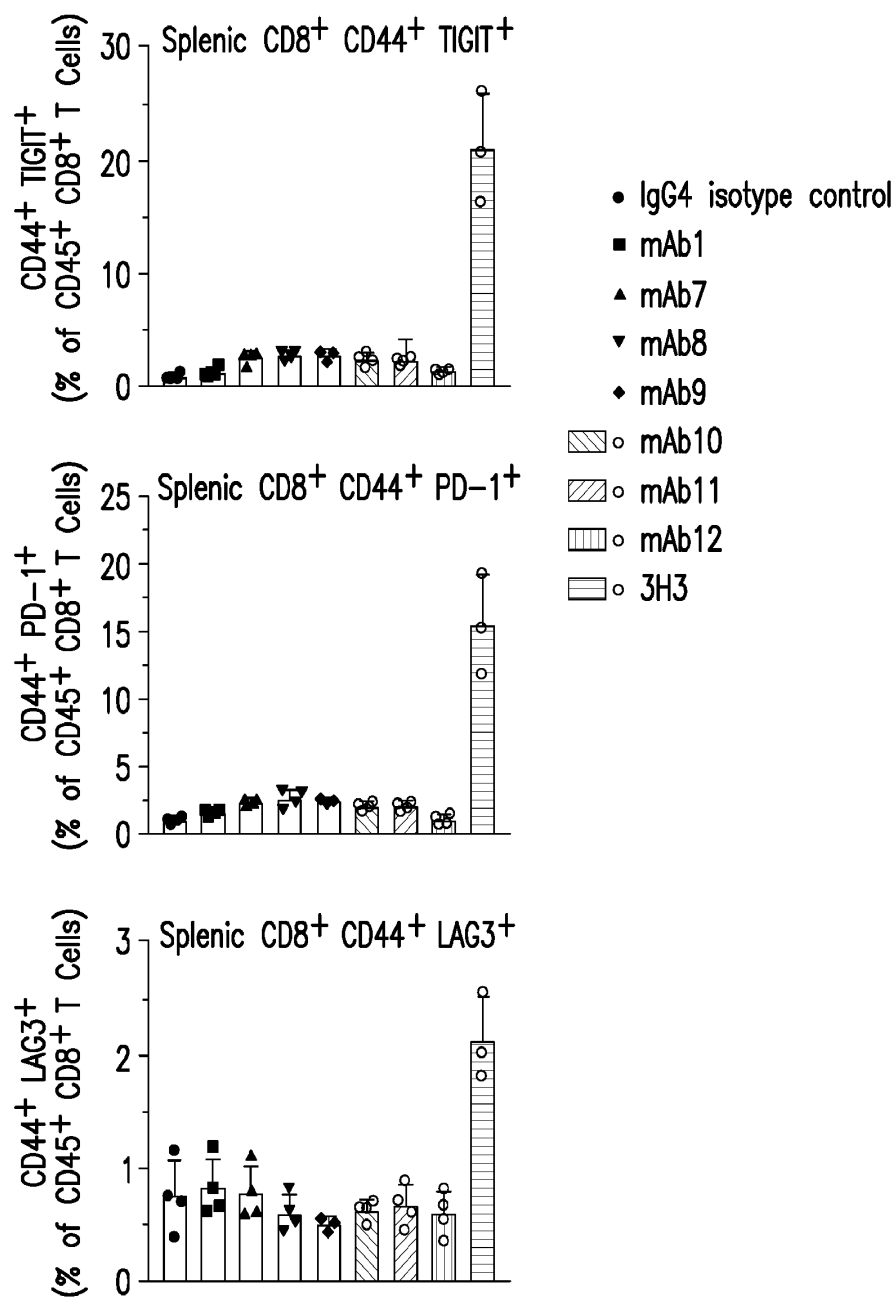


FIG.18A

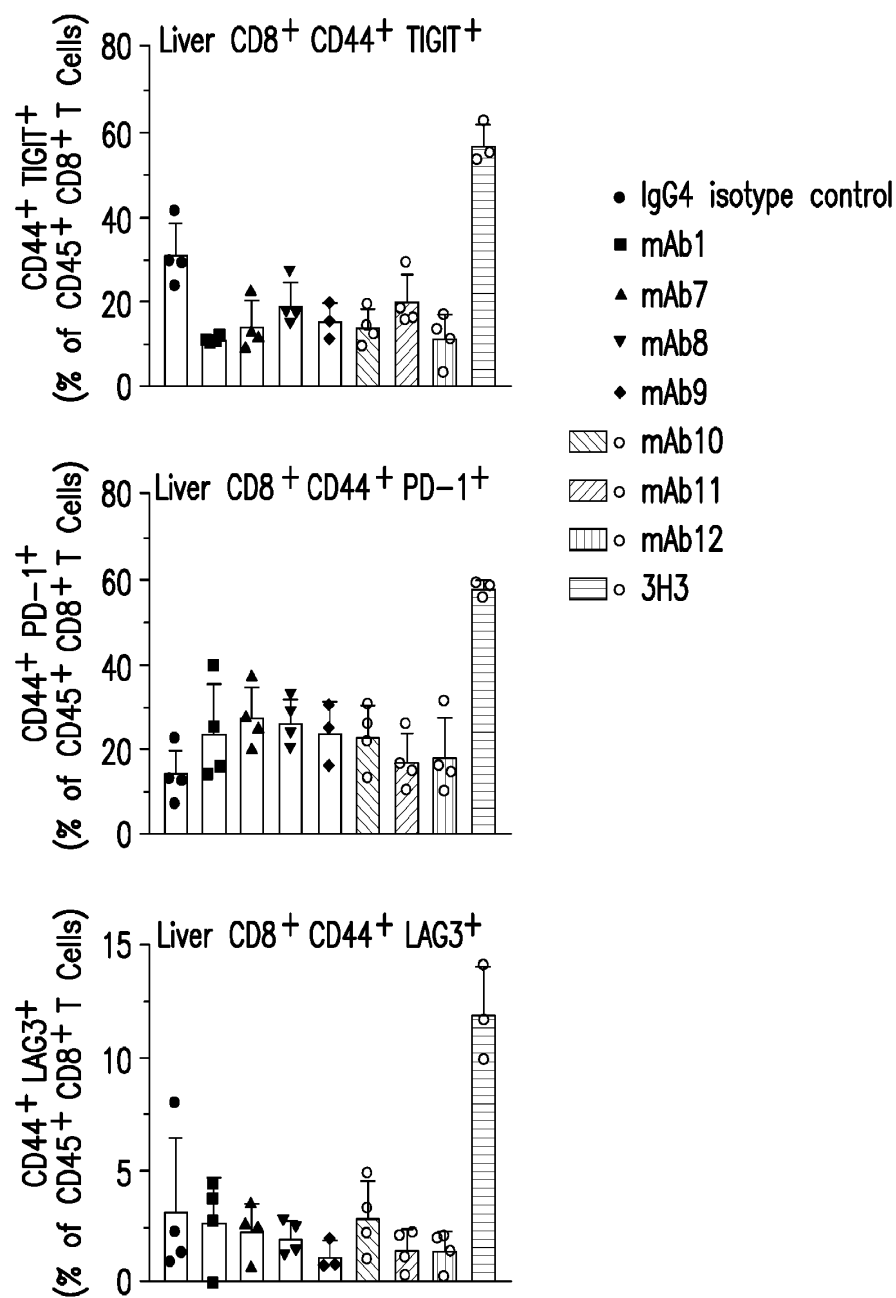


FIG.18B

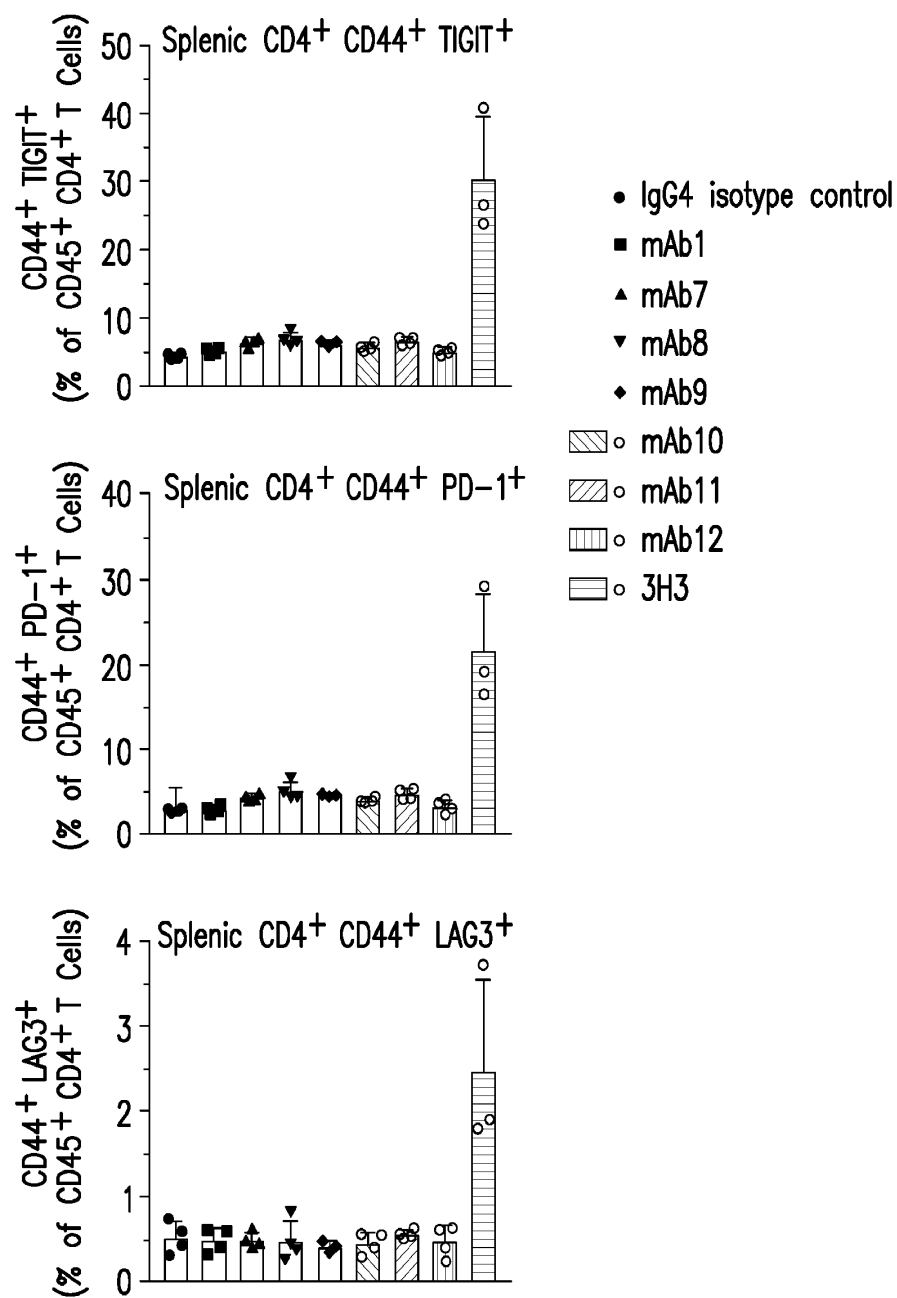


FIG.19A

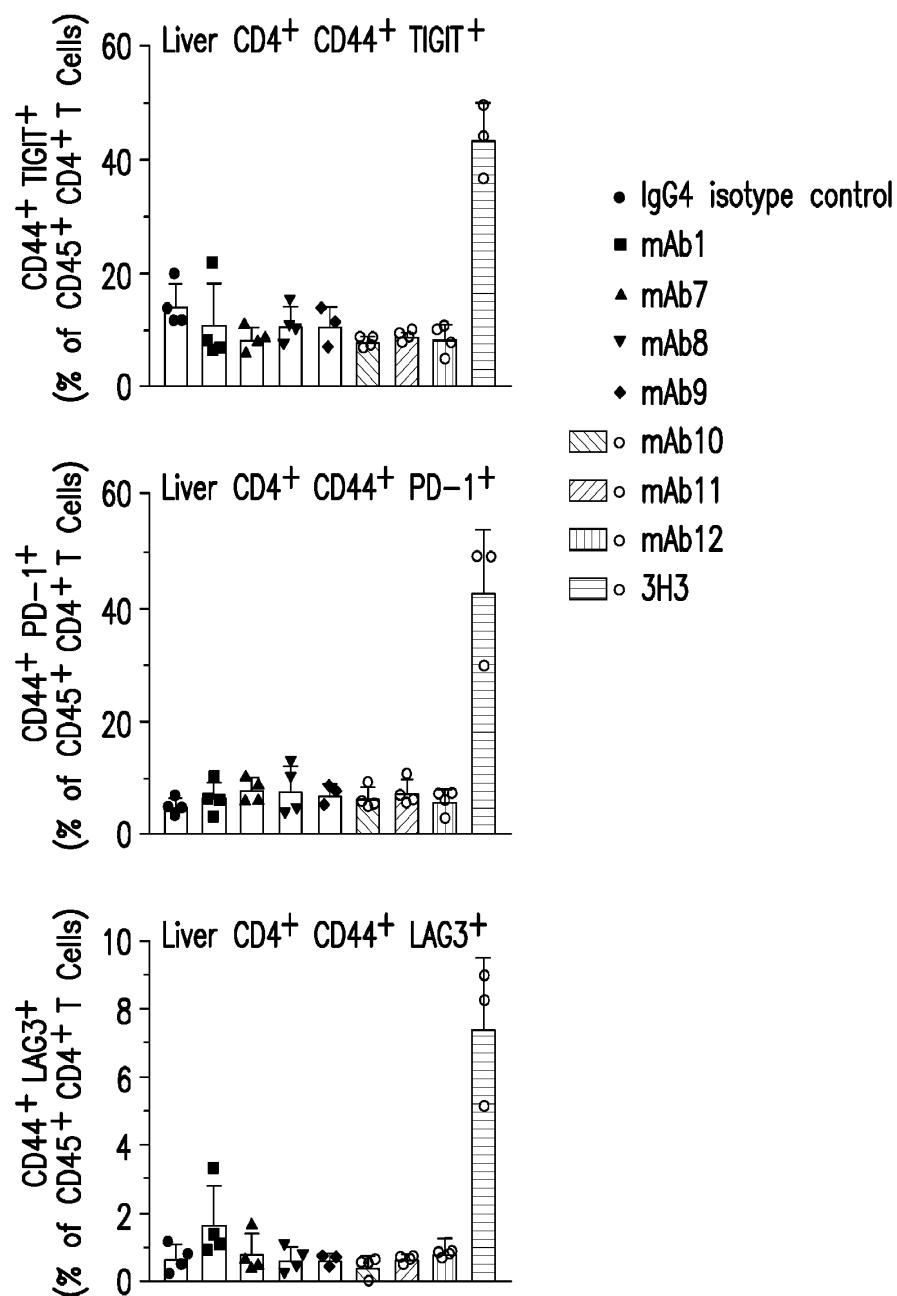


FIG.19B

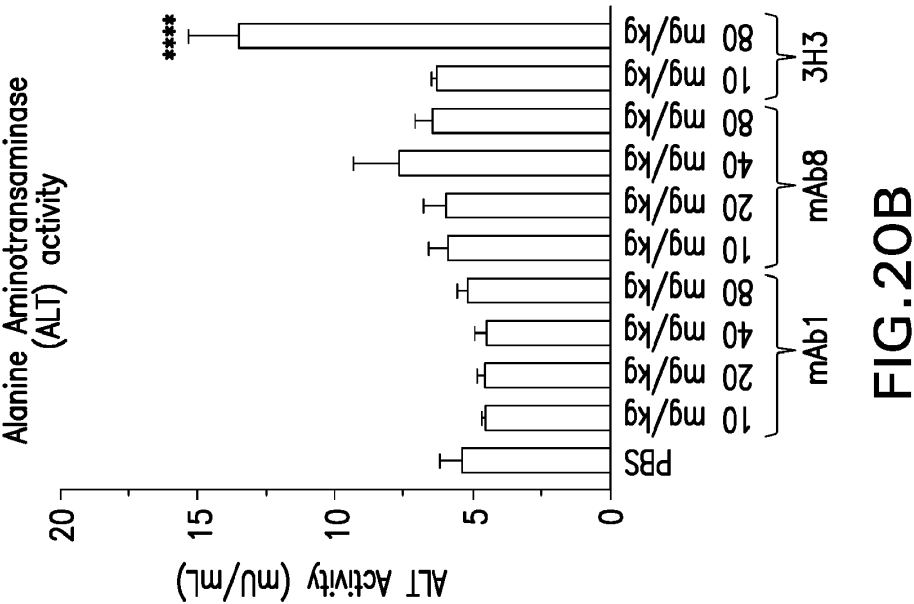


FIG.20B

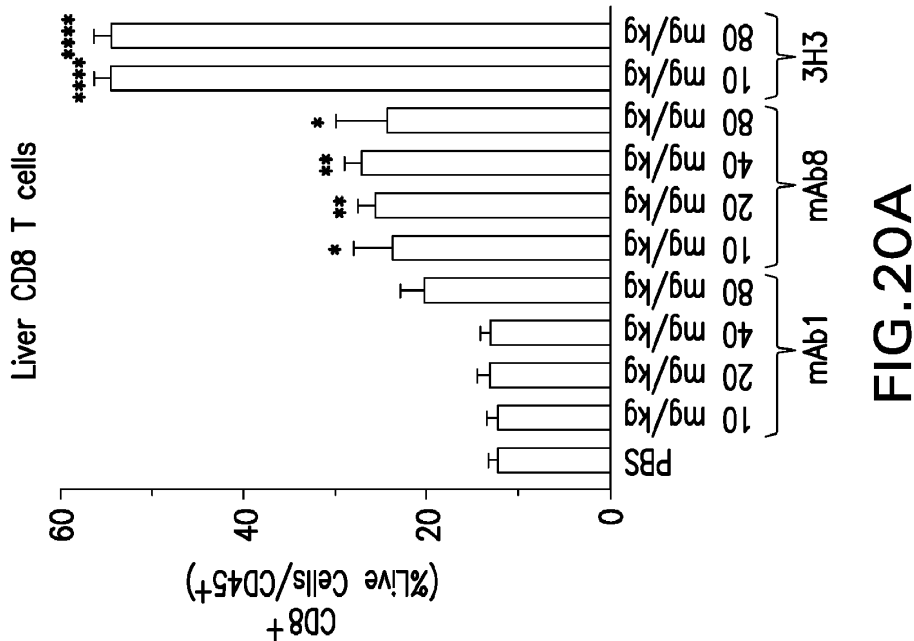
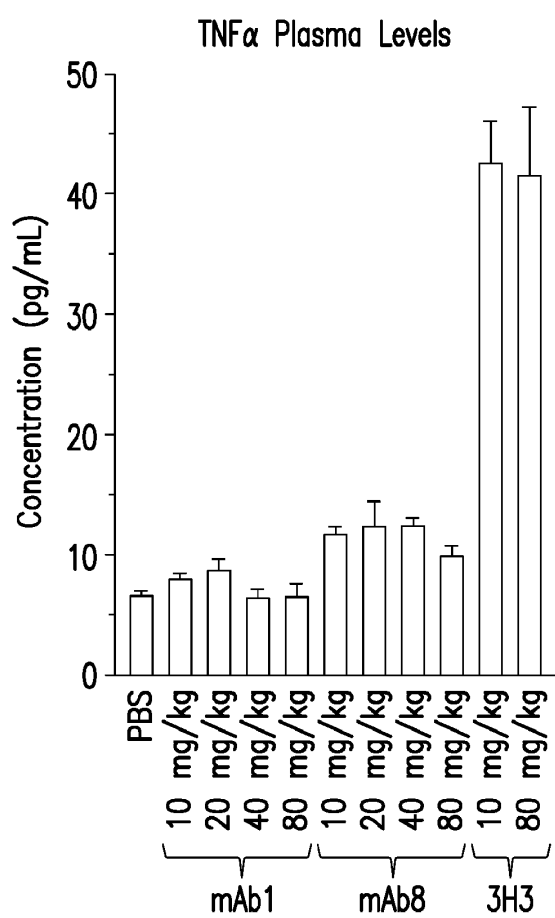


FIG.20A

**FIG.20C**

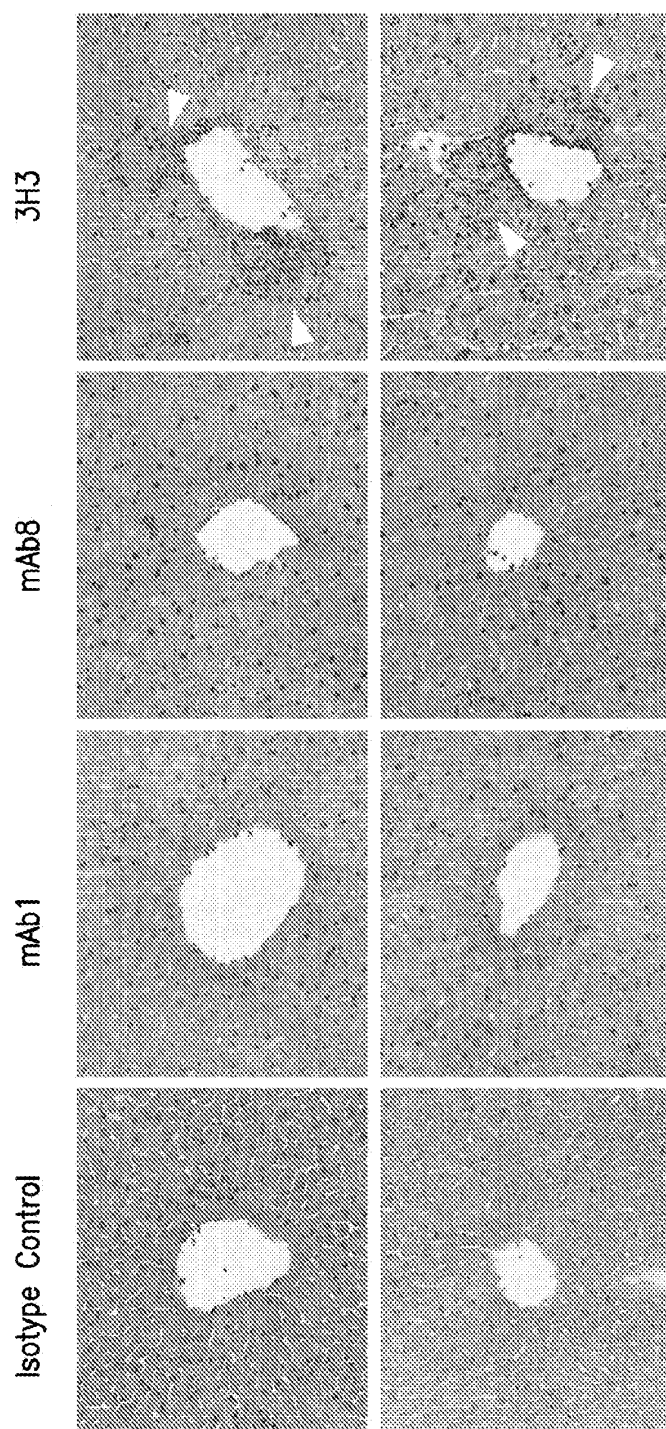


FIG.21

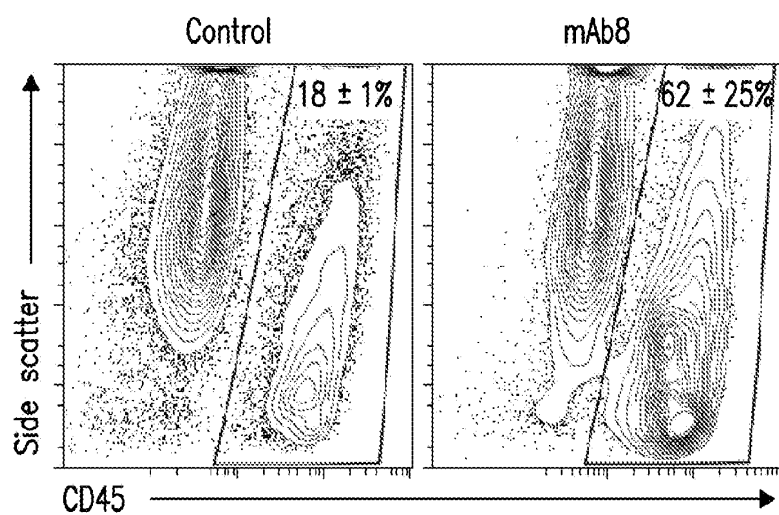


FIG. 22A

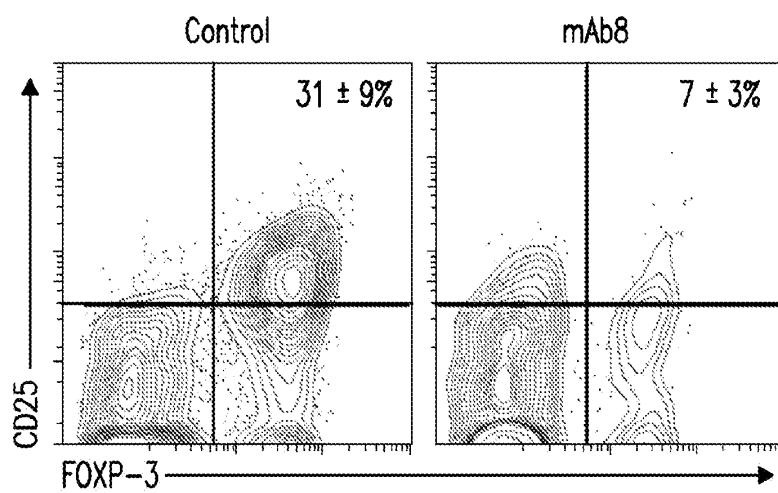


FIG. 22B

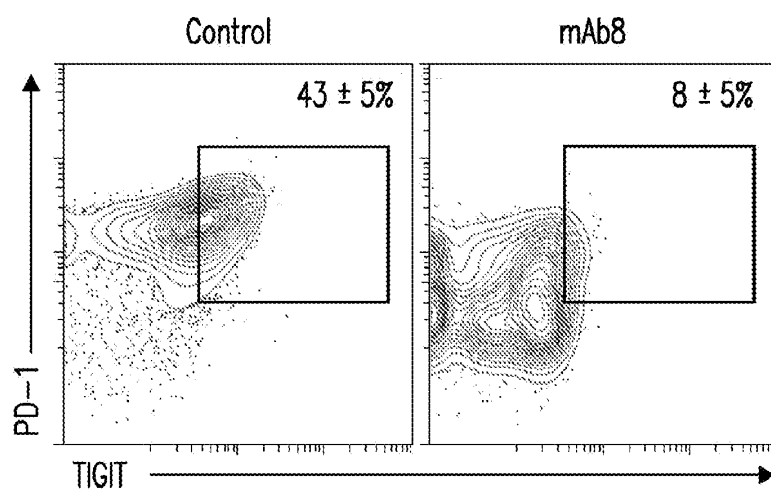


FIG. 22C

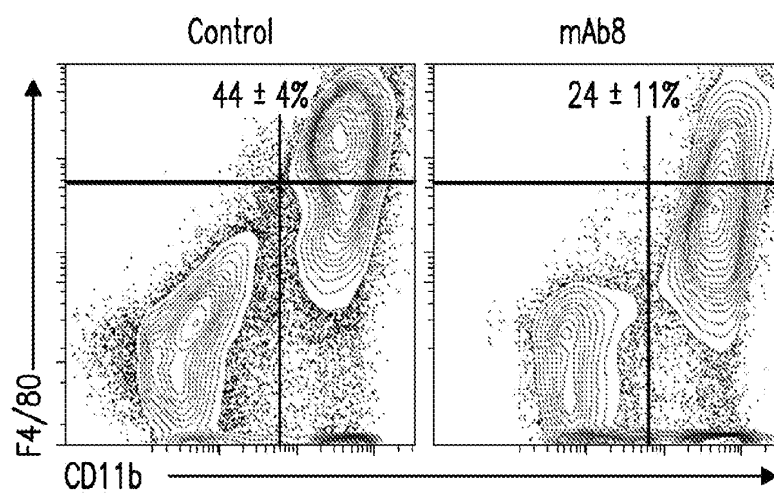


FIG. 22D

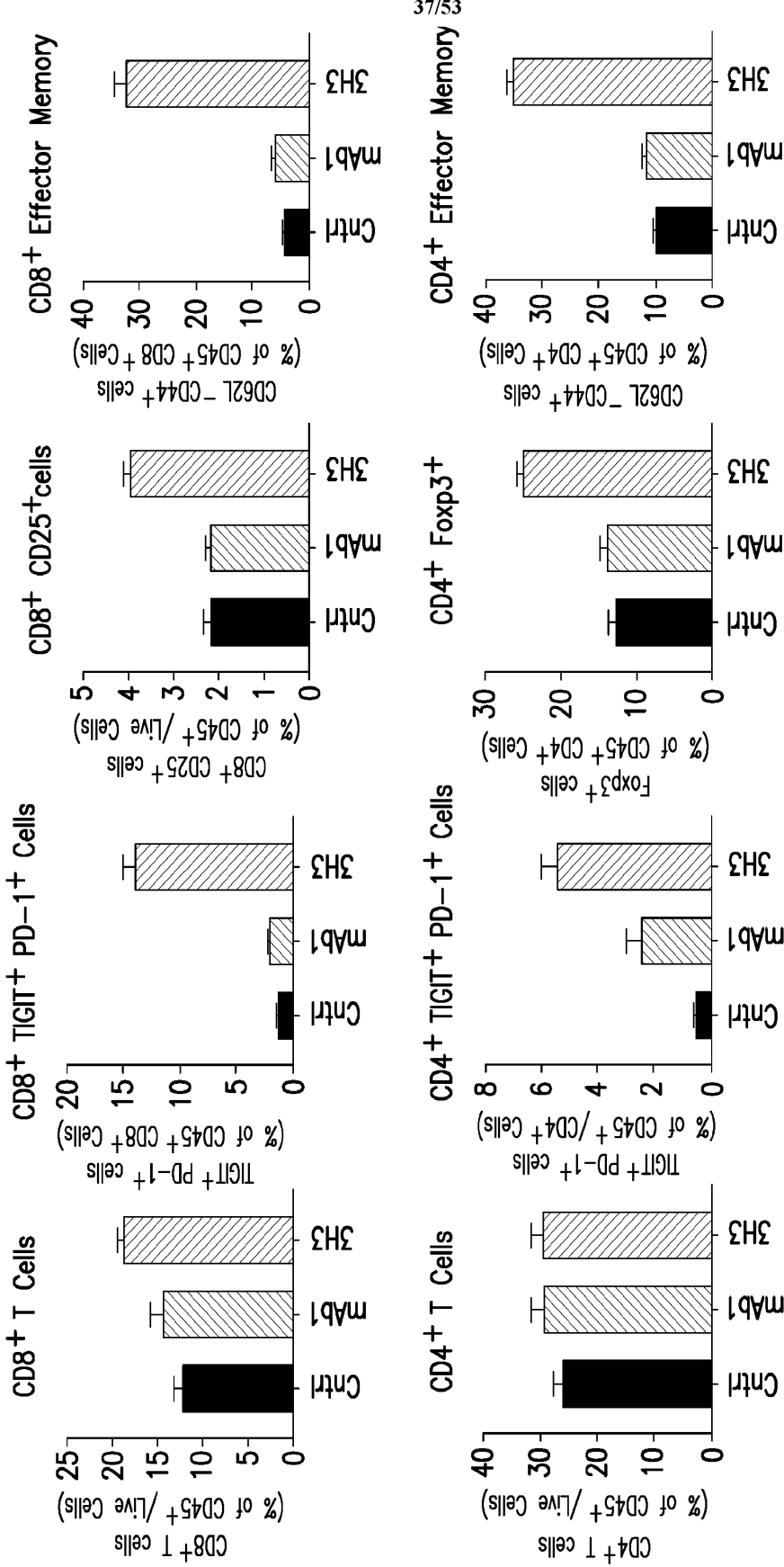


FIG. 23

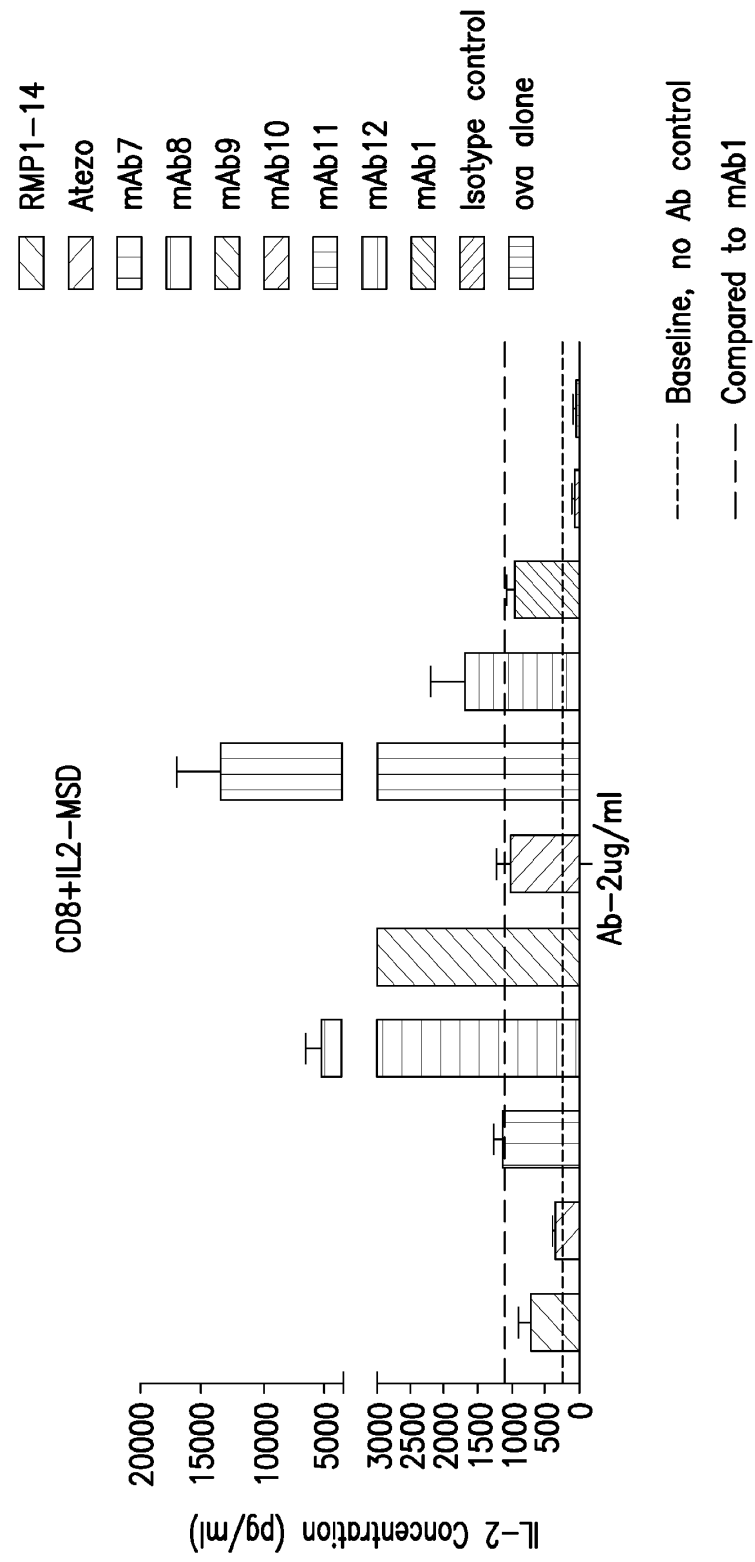


FIG.24

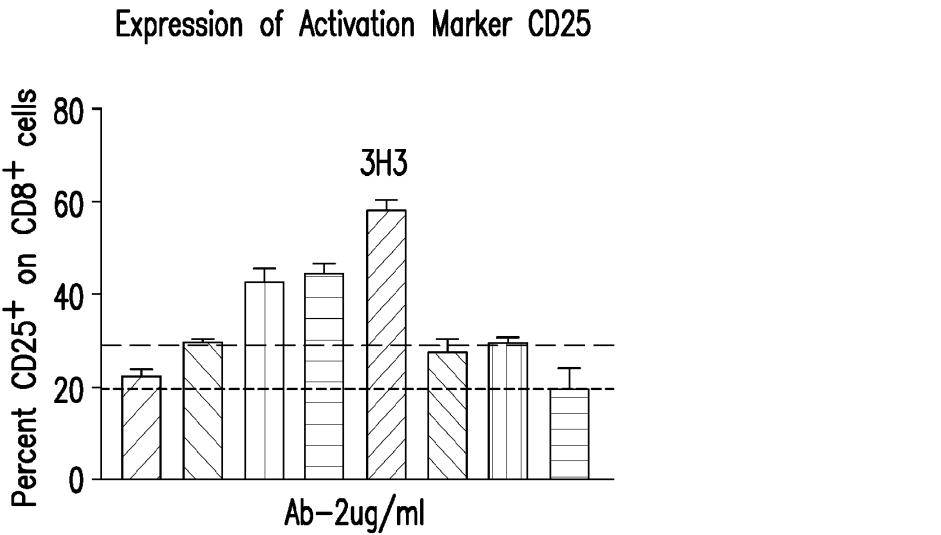


FIG.25A

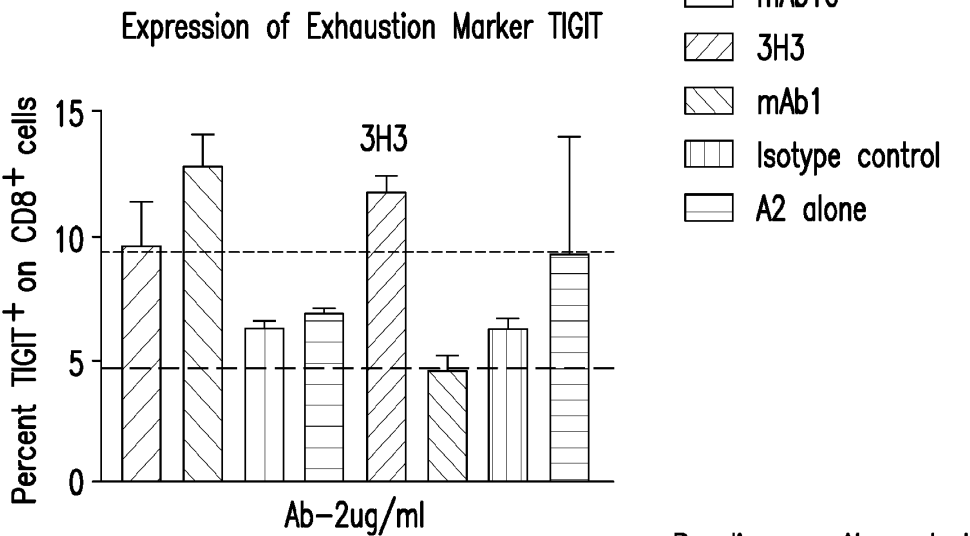
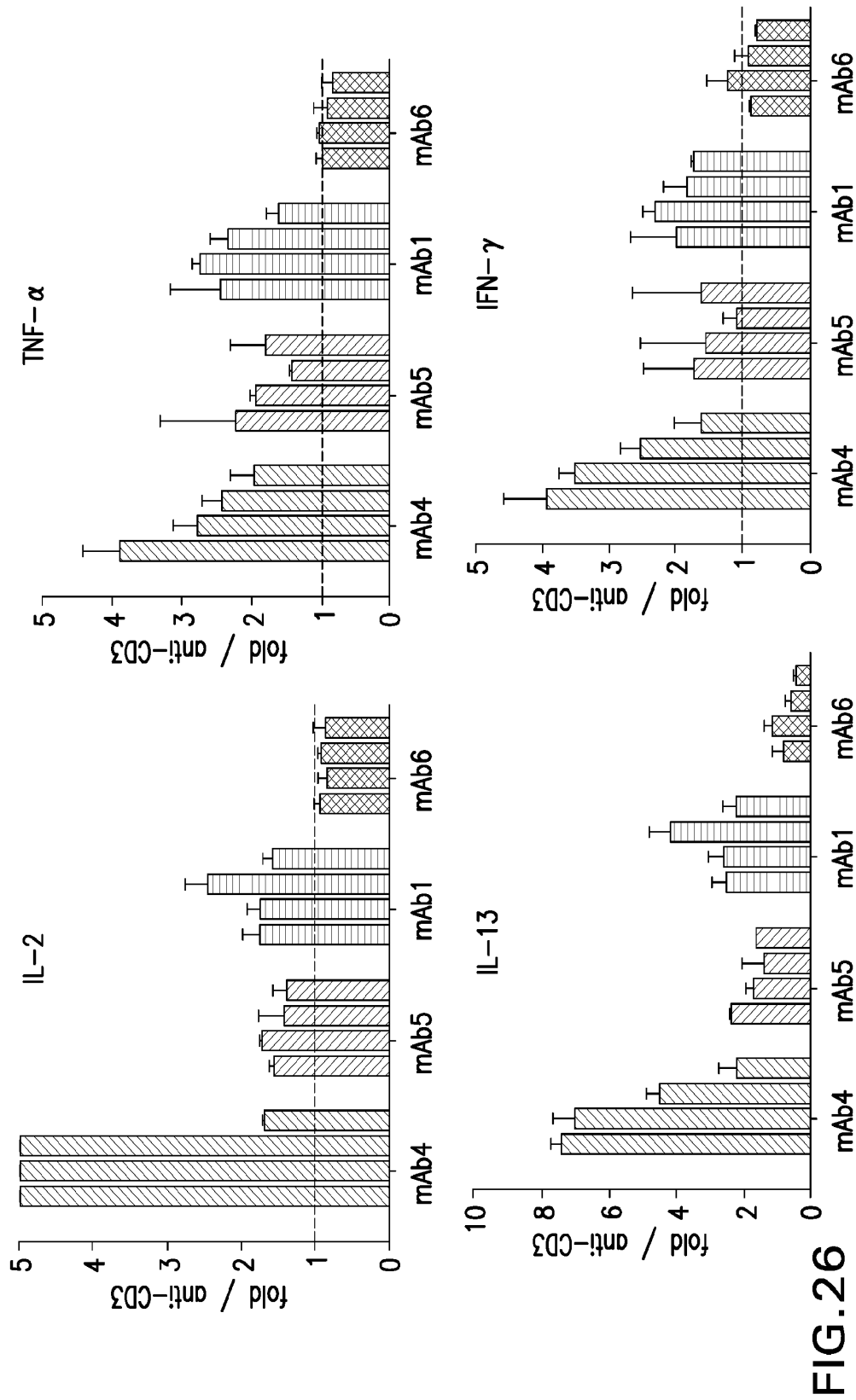


FIG.25B

----- Baseline, no Ab control  
----- Compared to mAb1



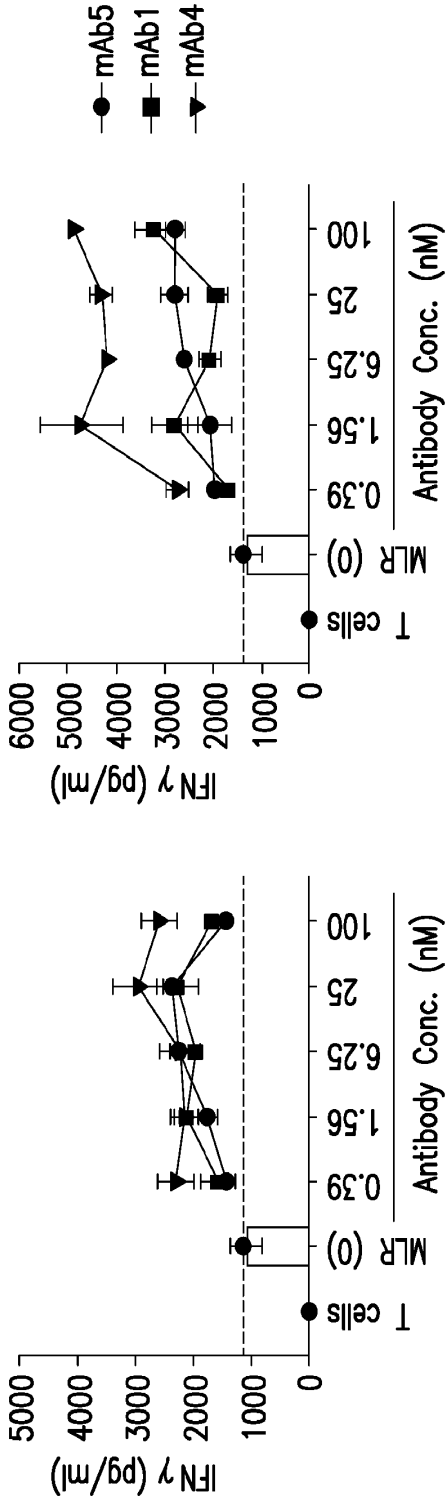
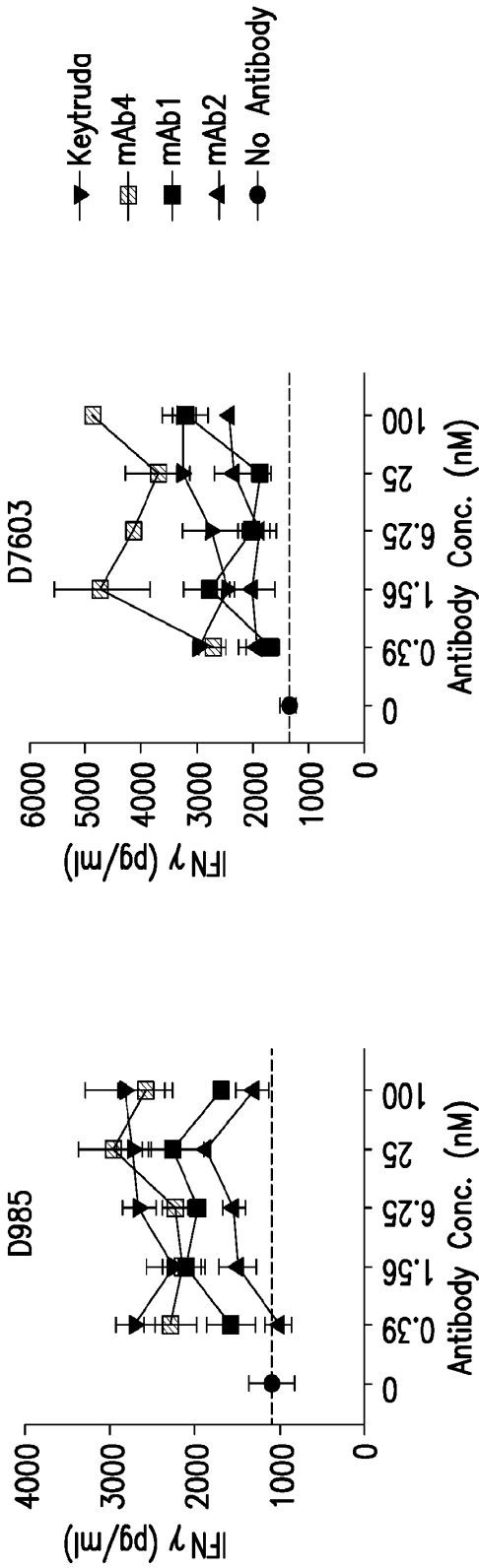


FIG.27A

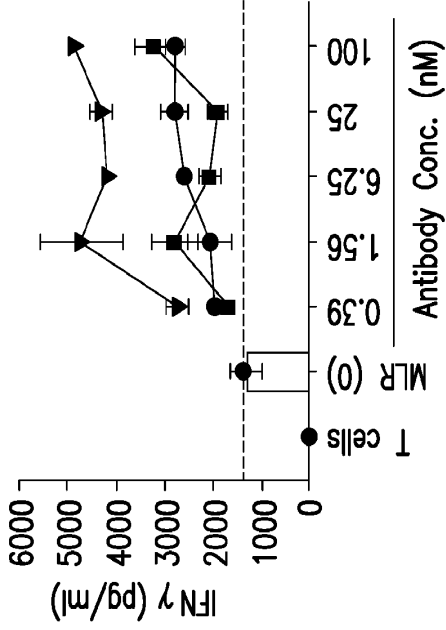
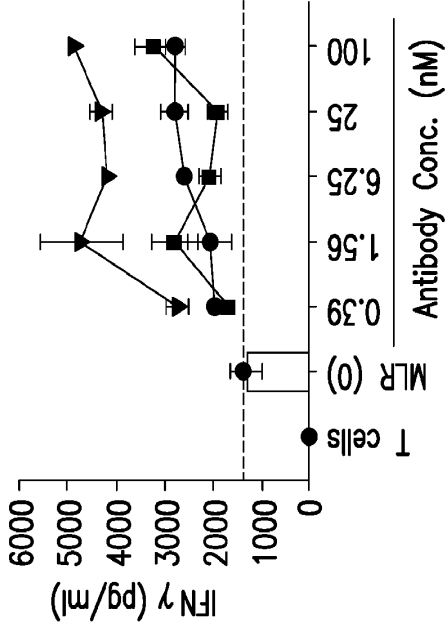


FIG.27B

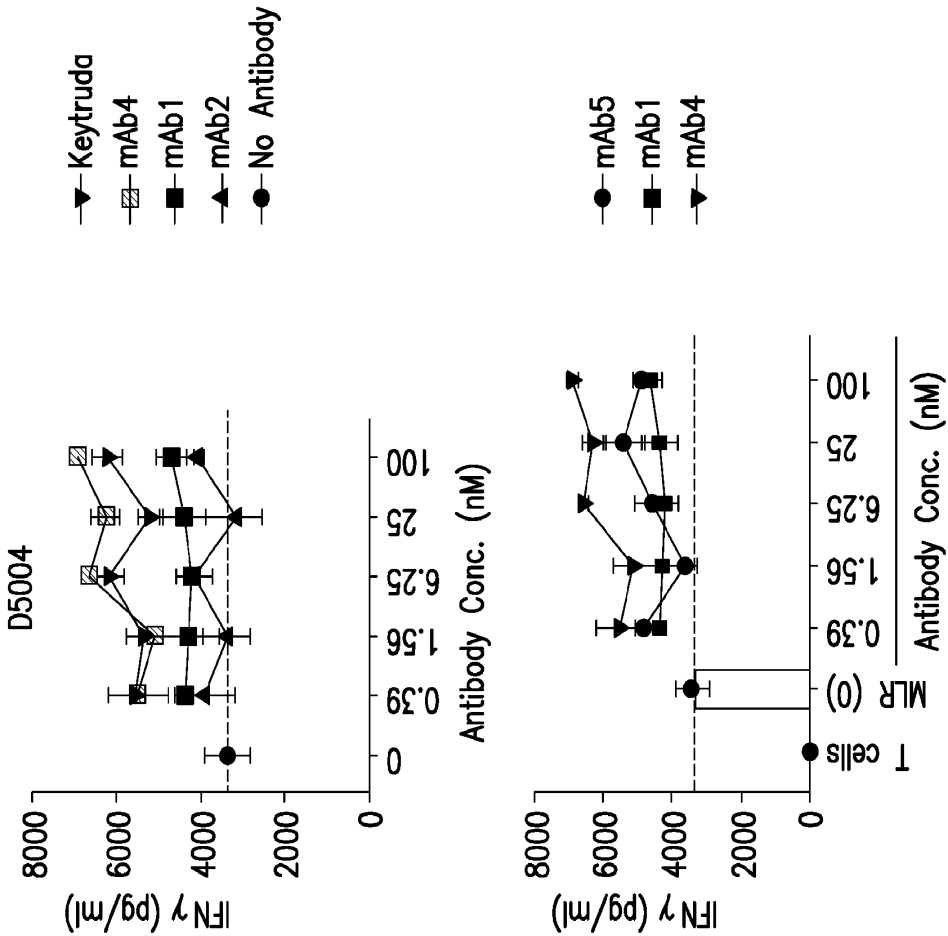


FIG.27C

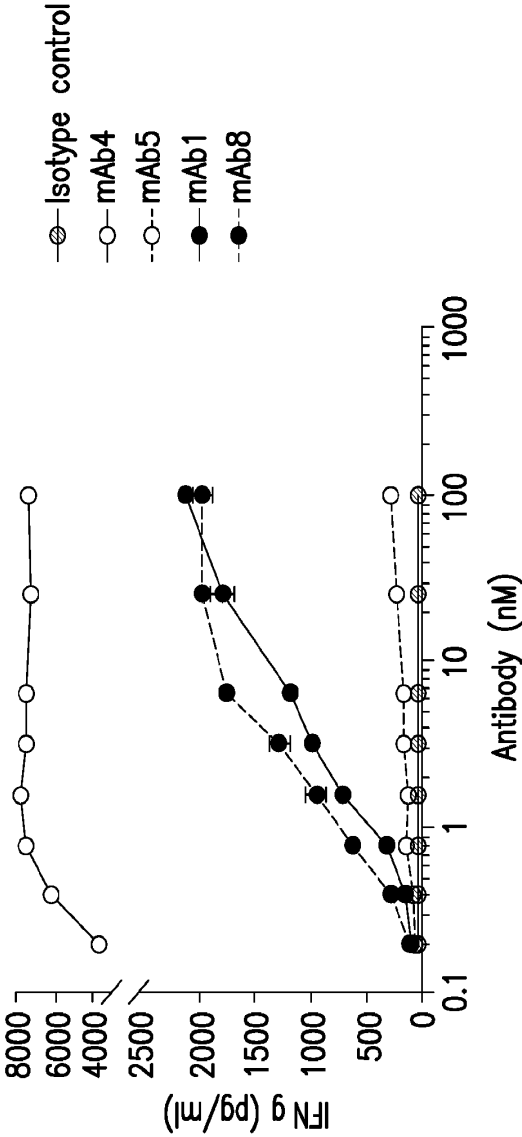


FIG.28

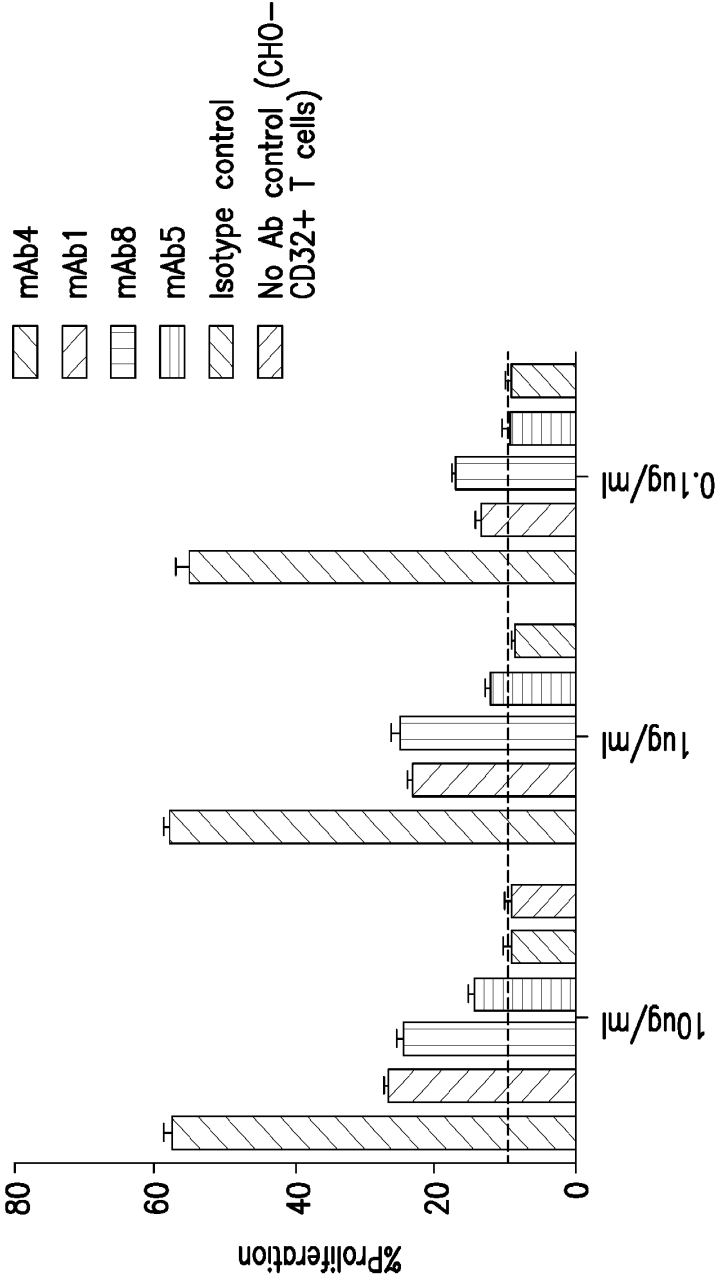
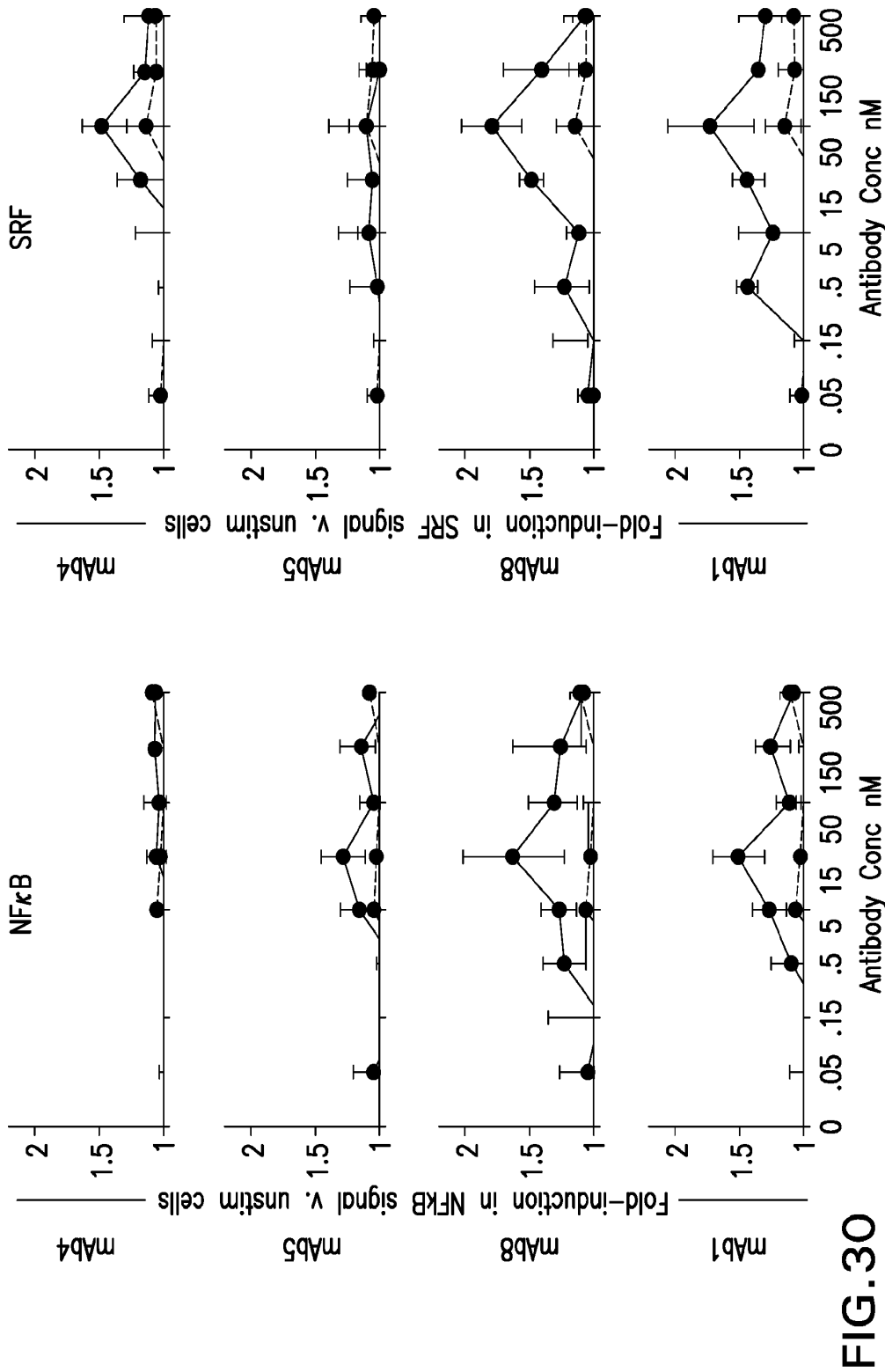


FIG. 29



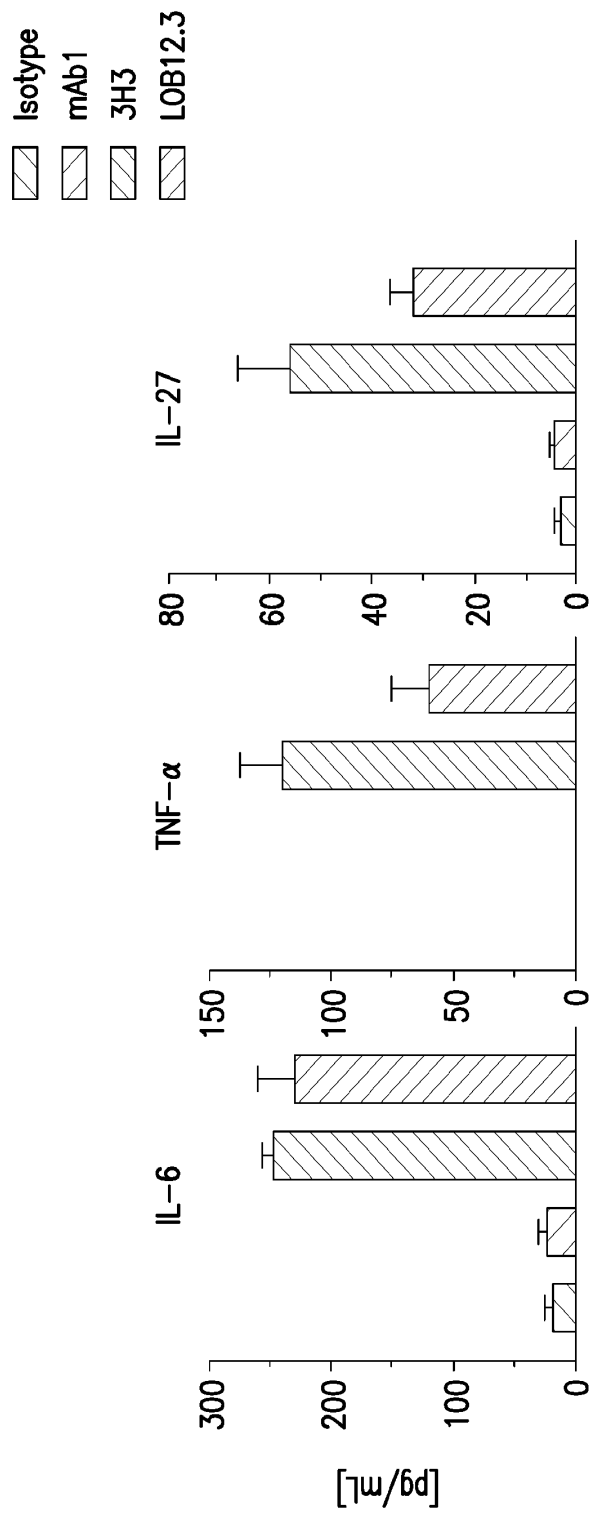


FIG.31

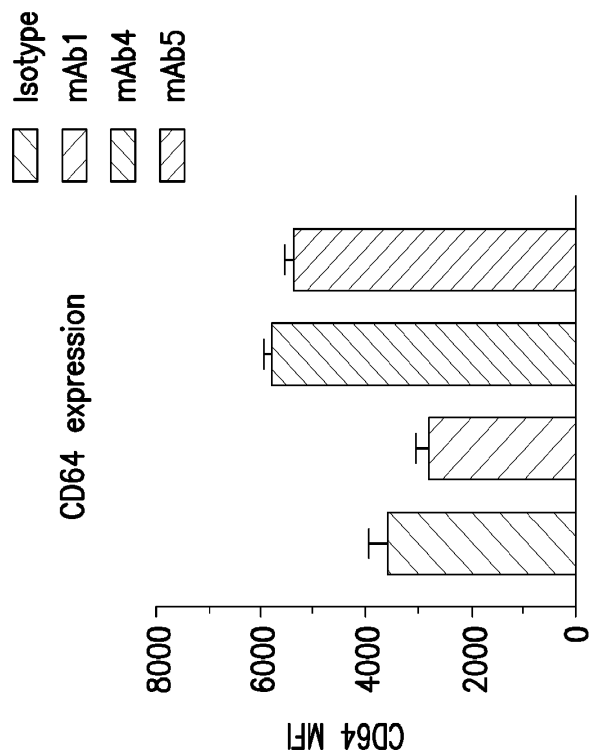


FIG.33

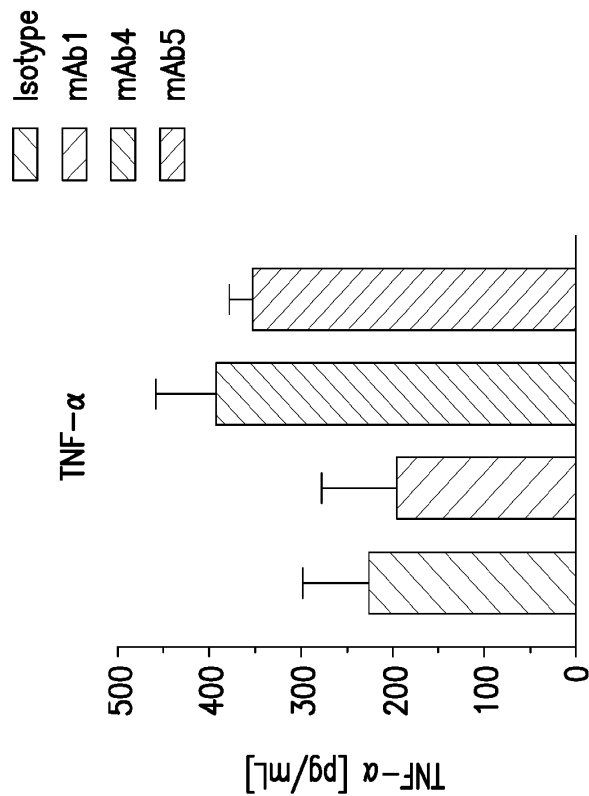


FIG.32

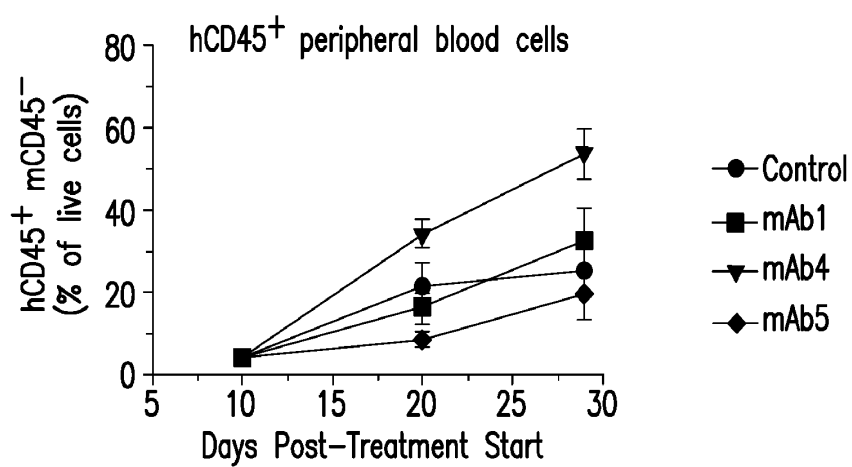


FIG.34A

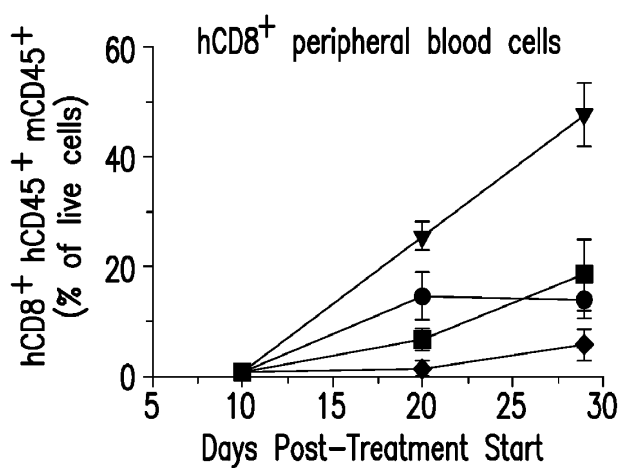


FIG.34B

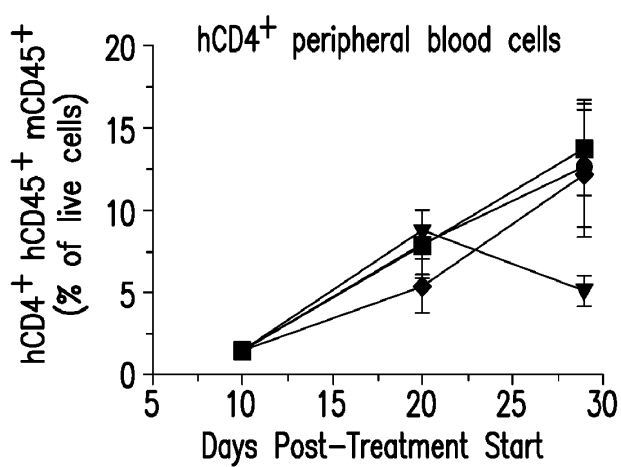
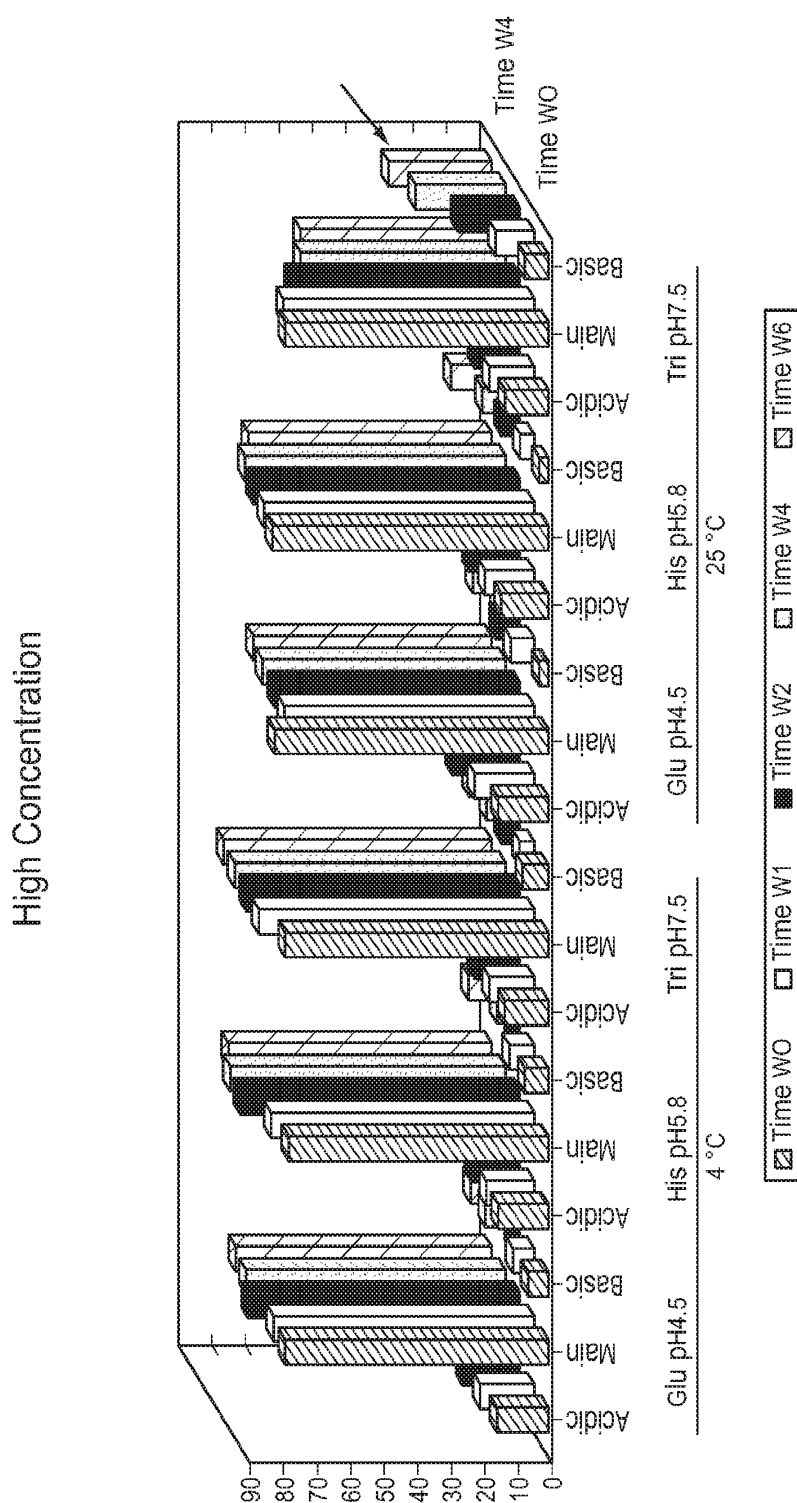


FIG.34C



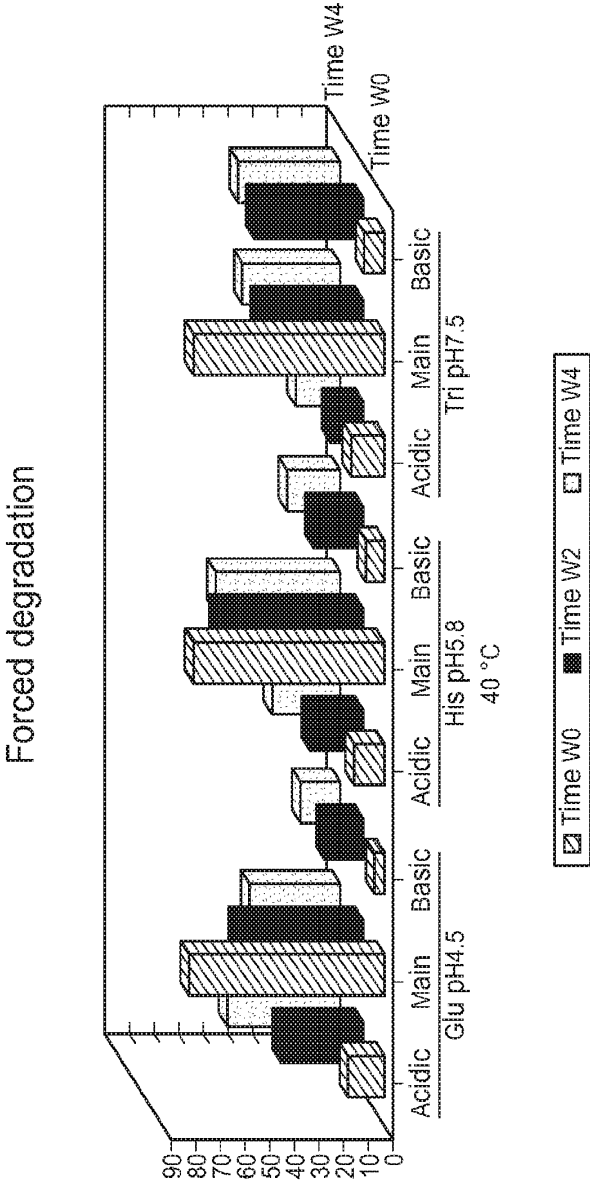


FIG. 36

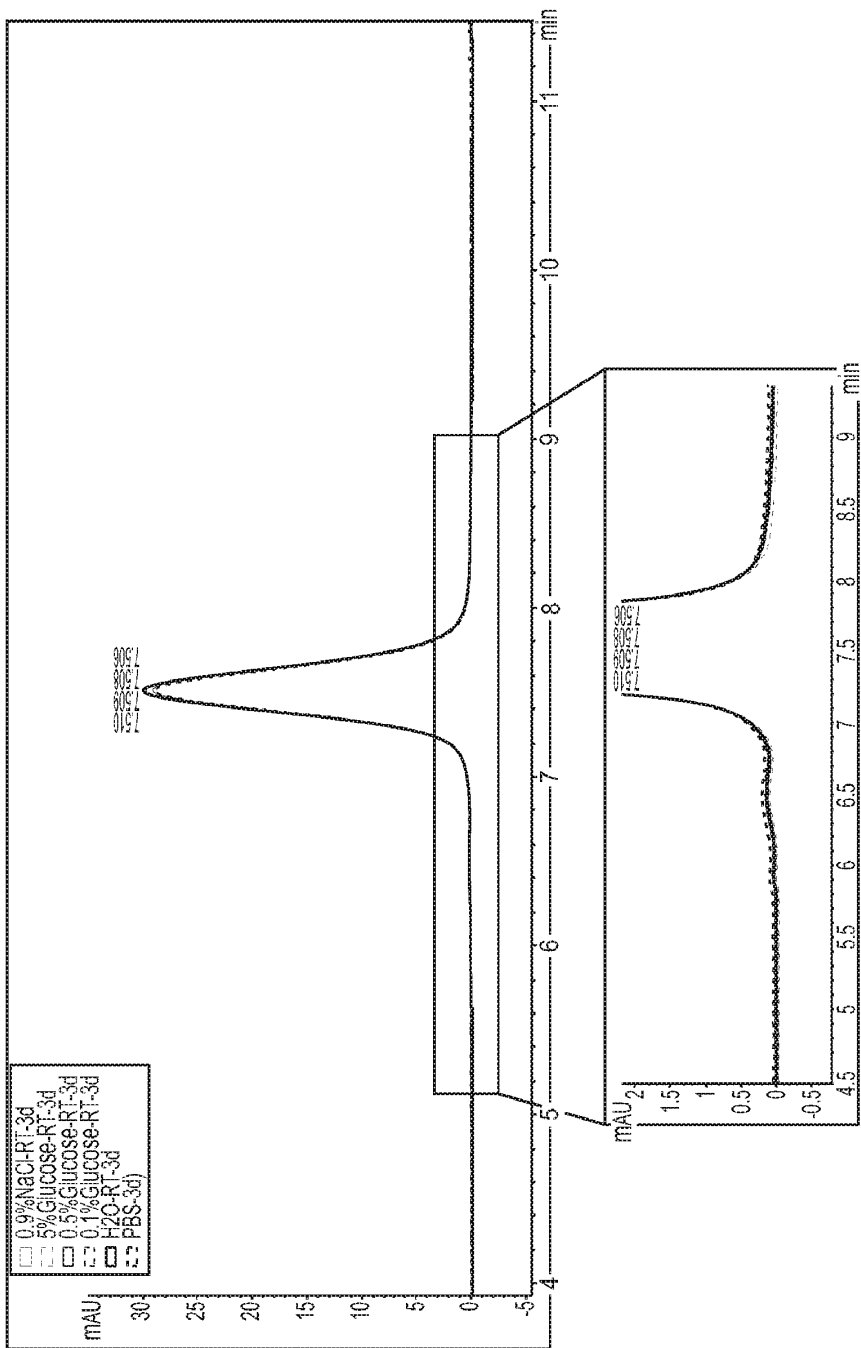


FIG.37

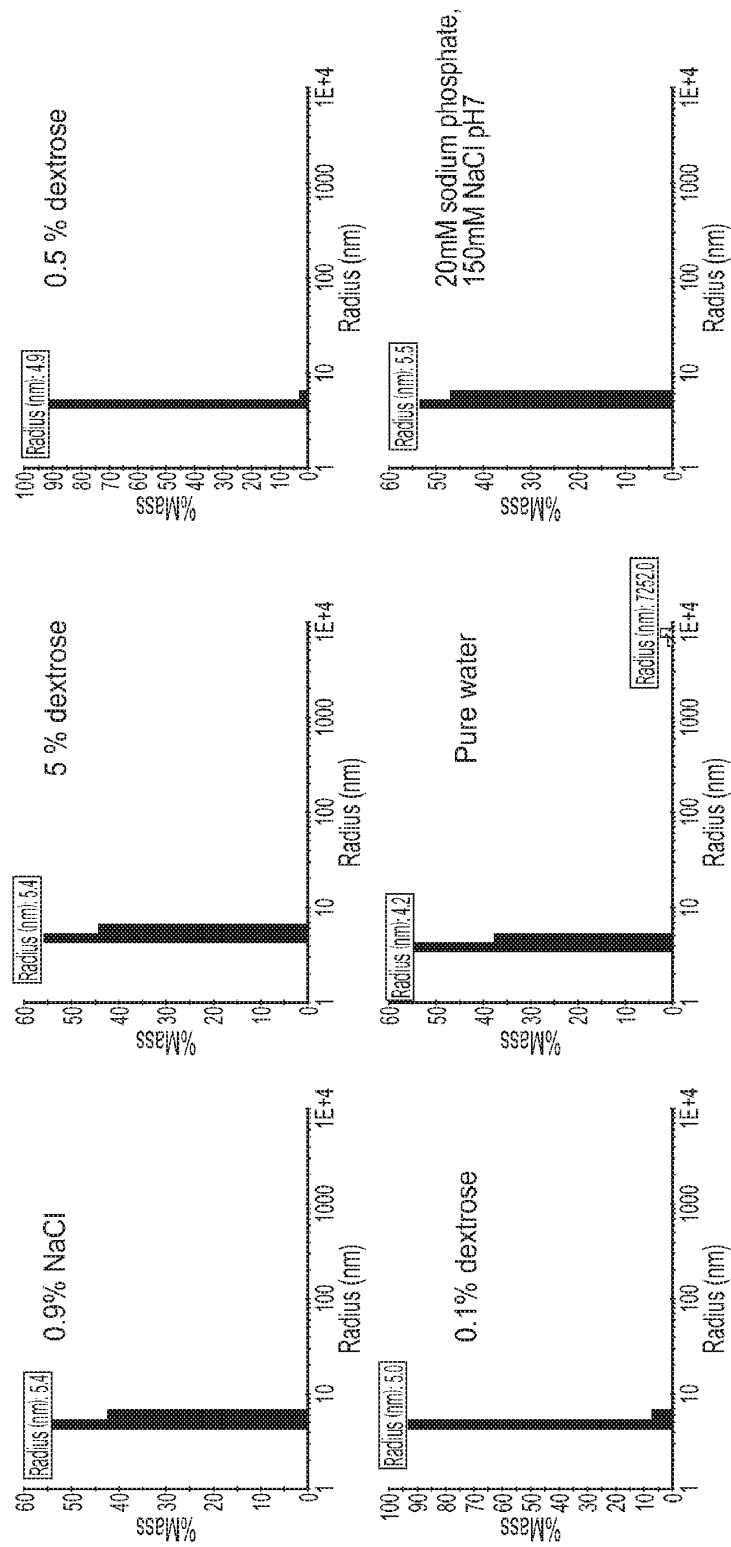


FIG. 38

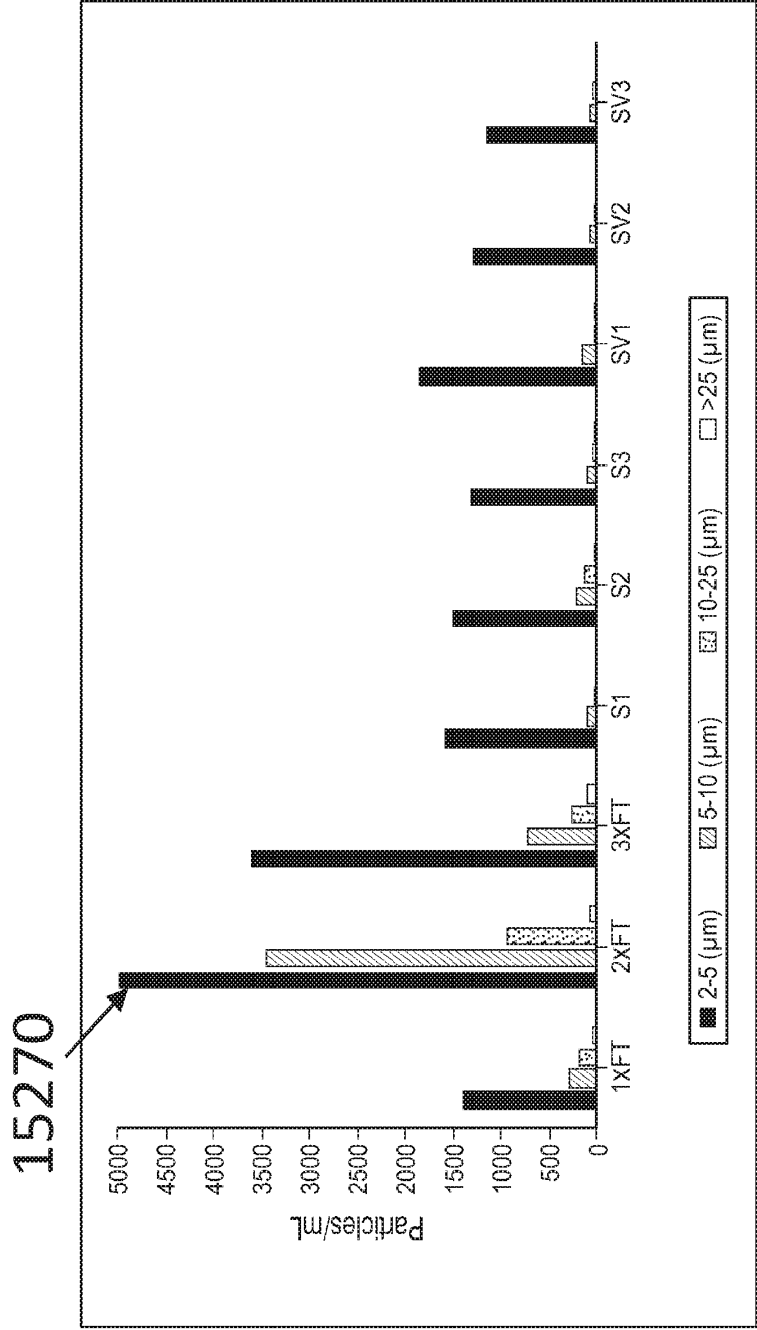


FIG. 39