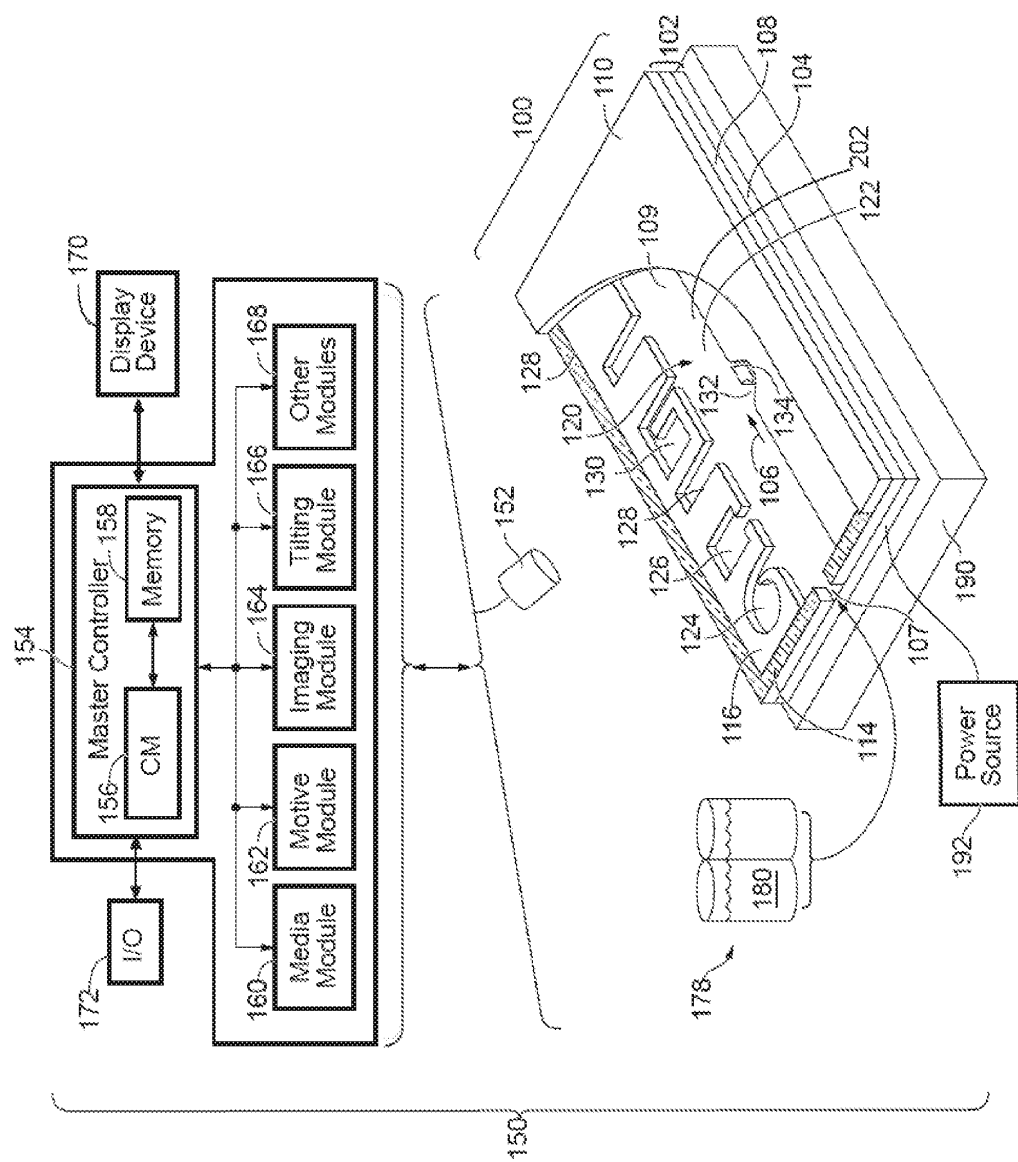
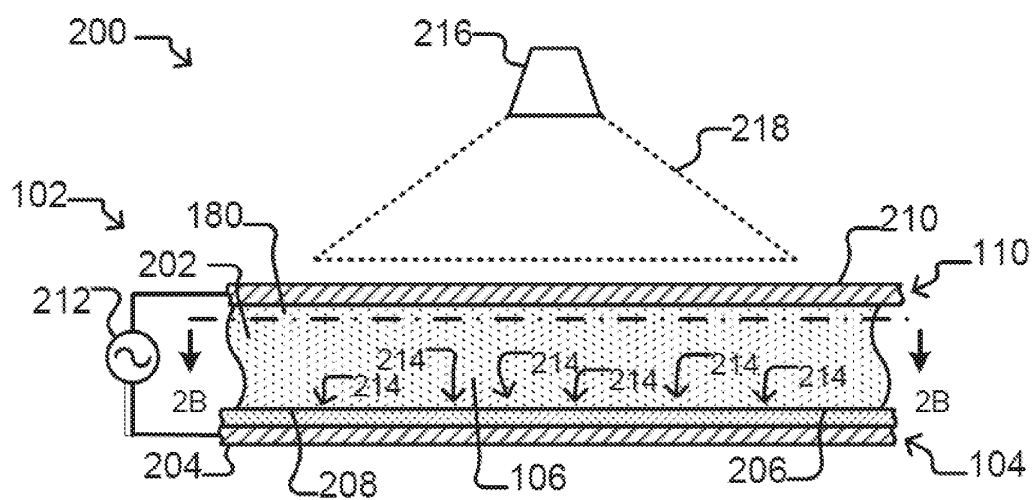
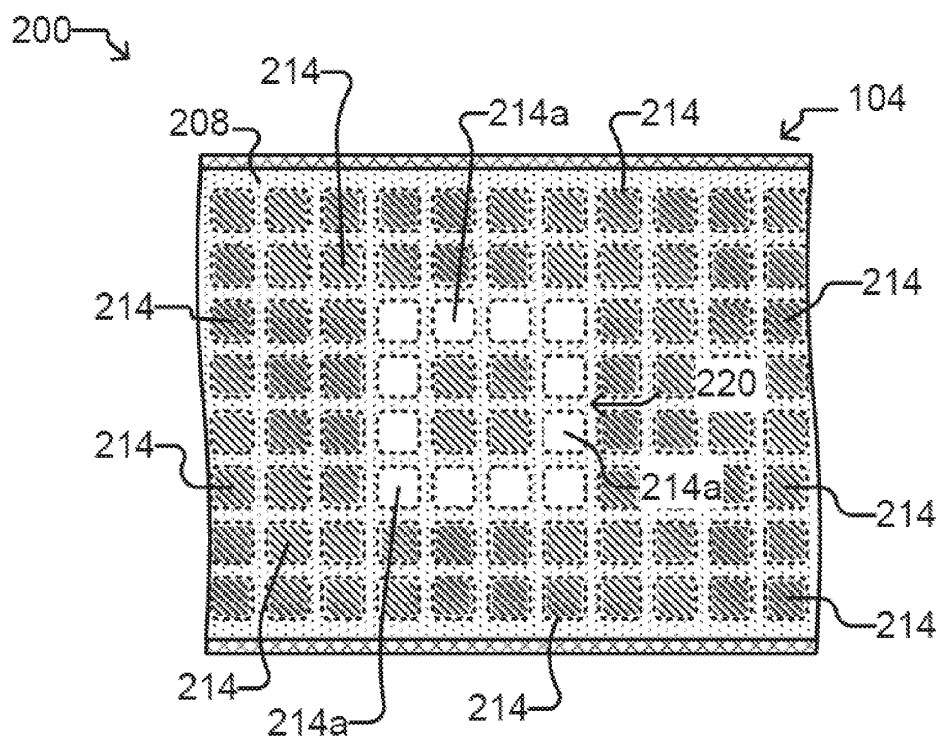
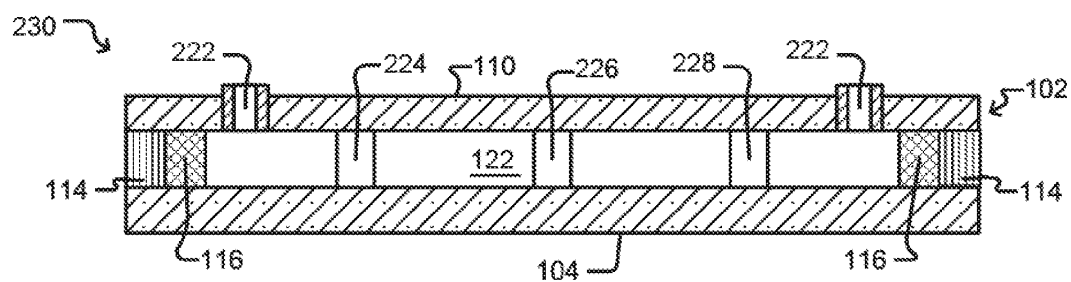
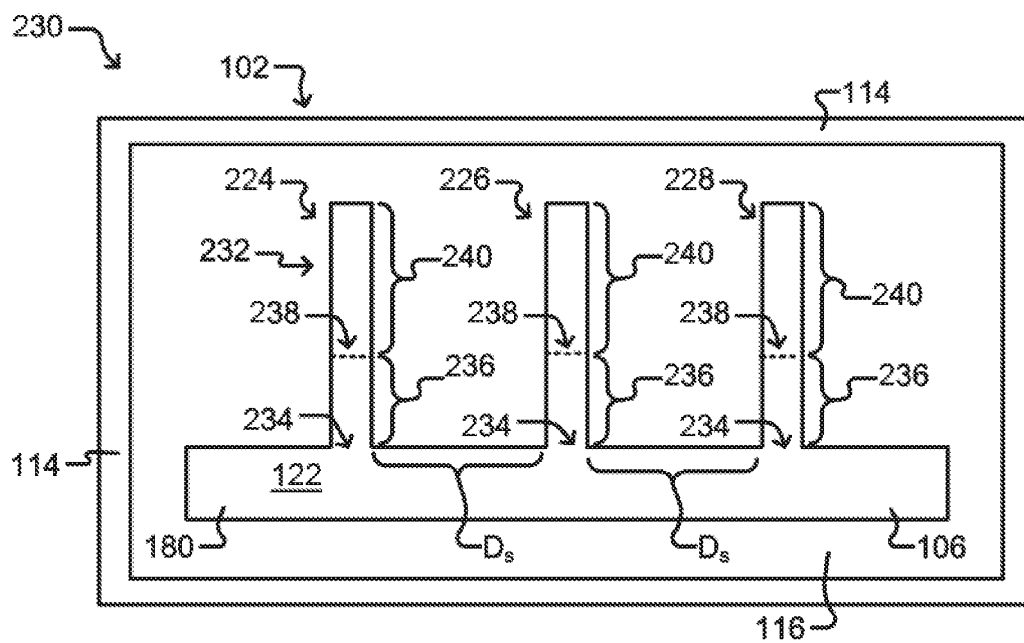




**FIG. 1B****FIG. 1C**

**FIG. 2A****FIG. 2B**

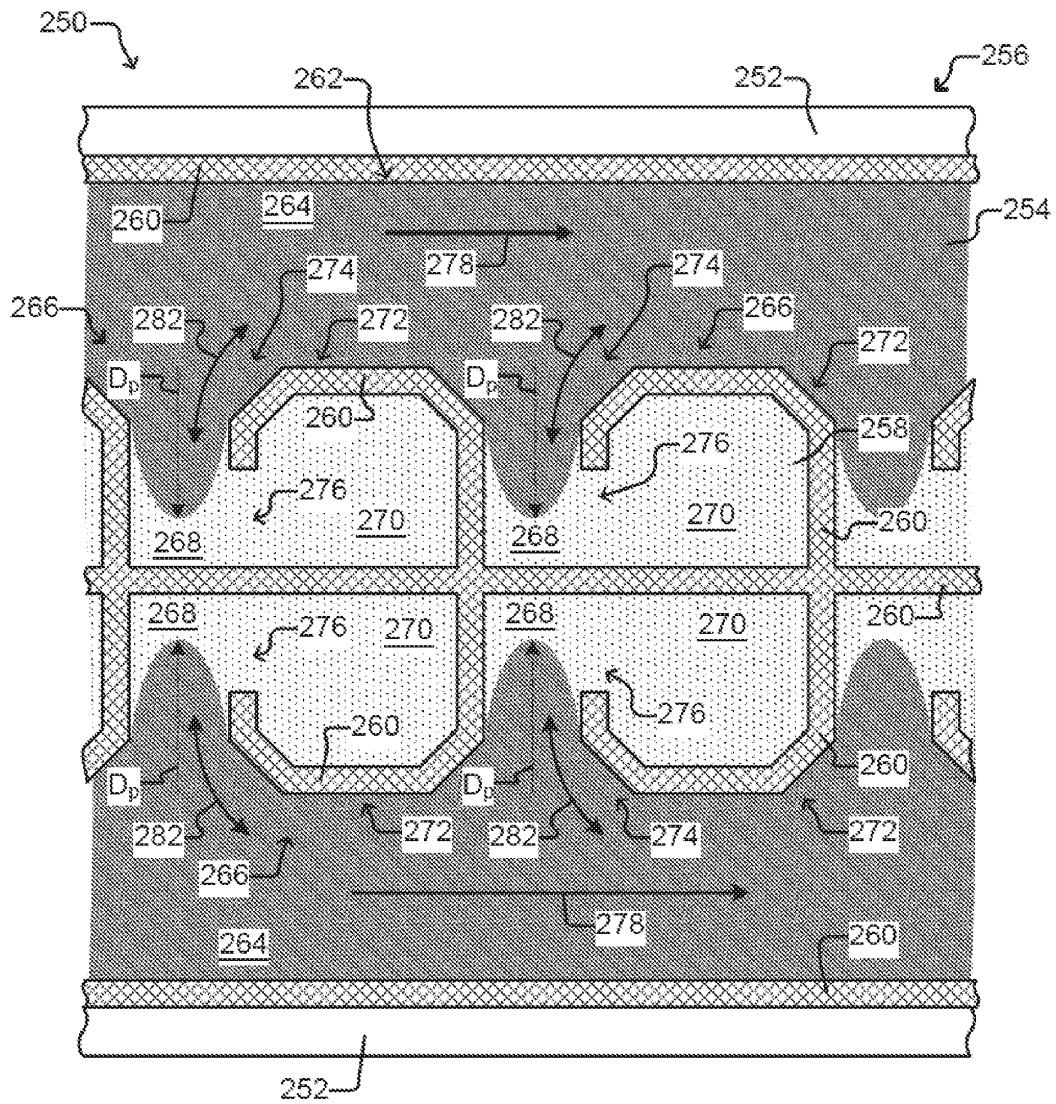


FIG. 2D

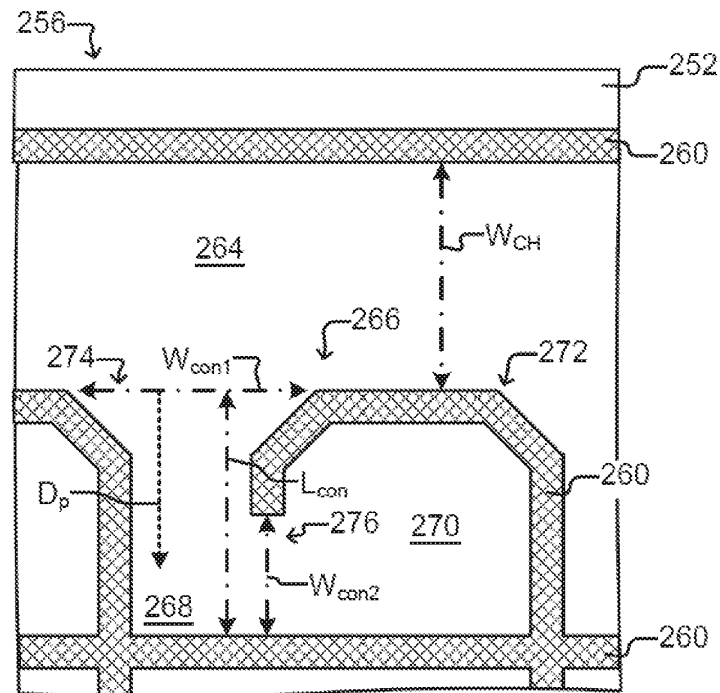


FIG. 2E

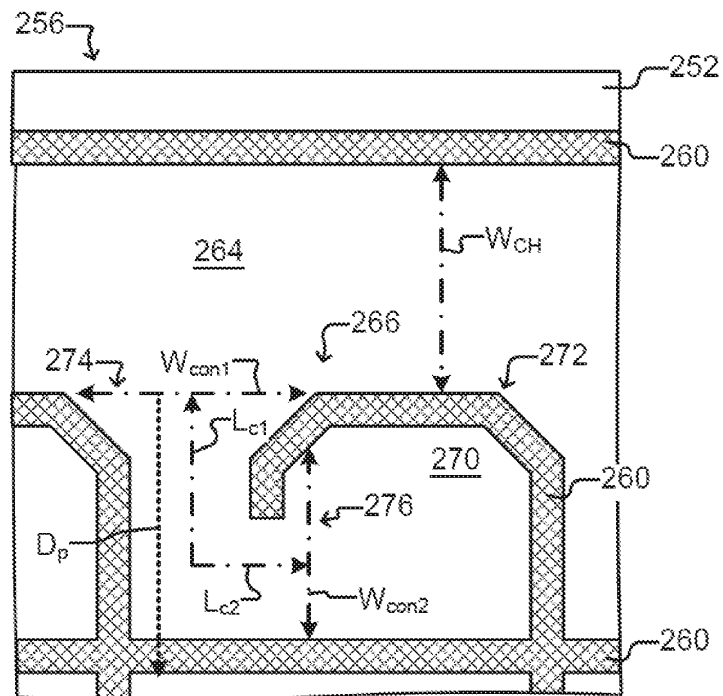


FIG. 2F

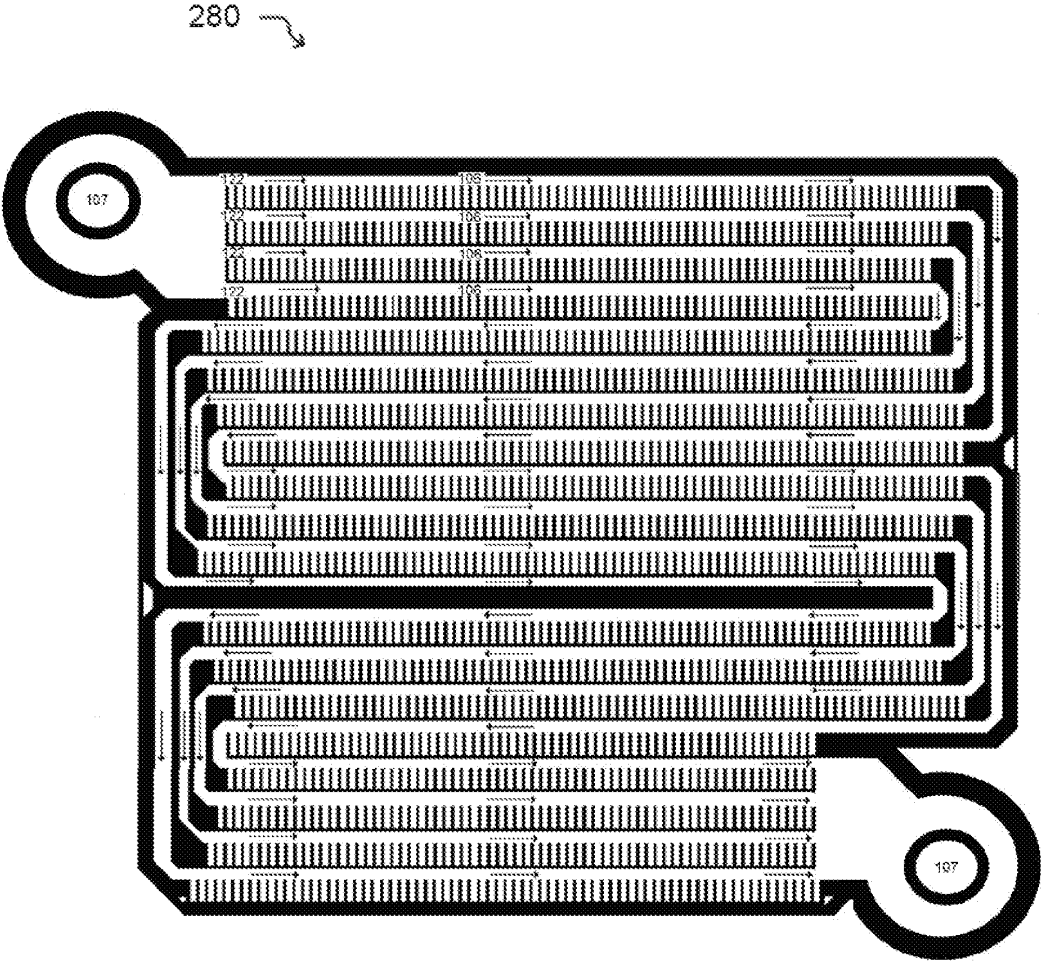


FIG. 2G

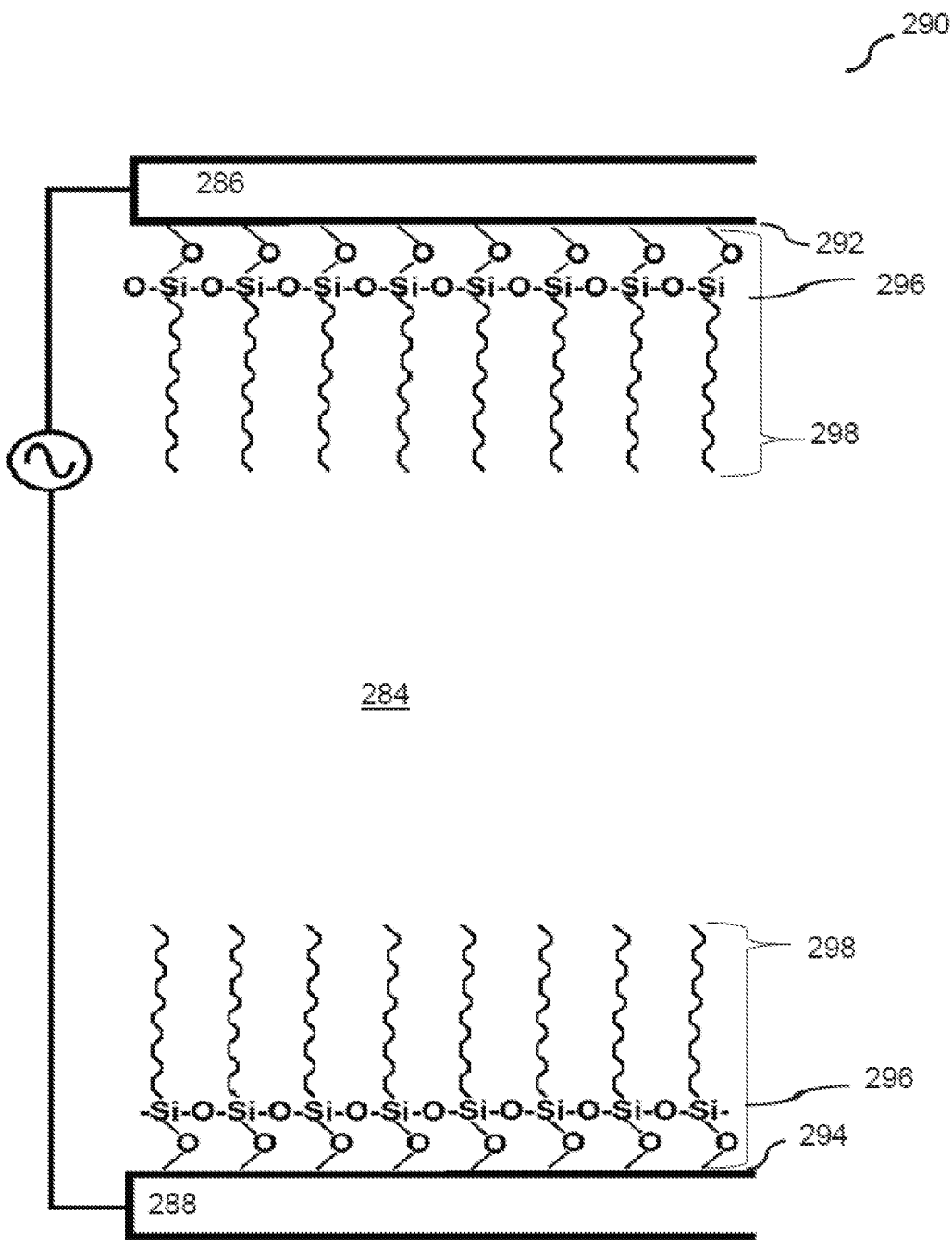


FIG. 2H

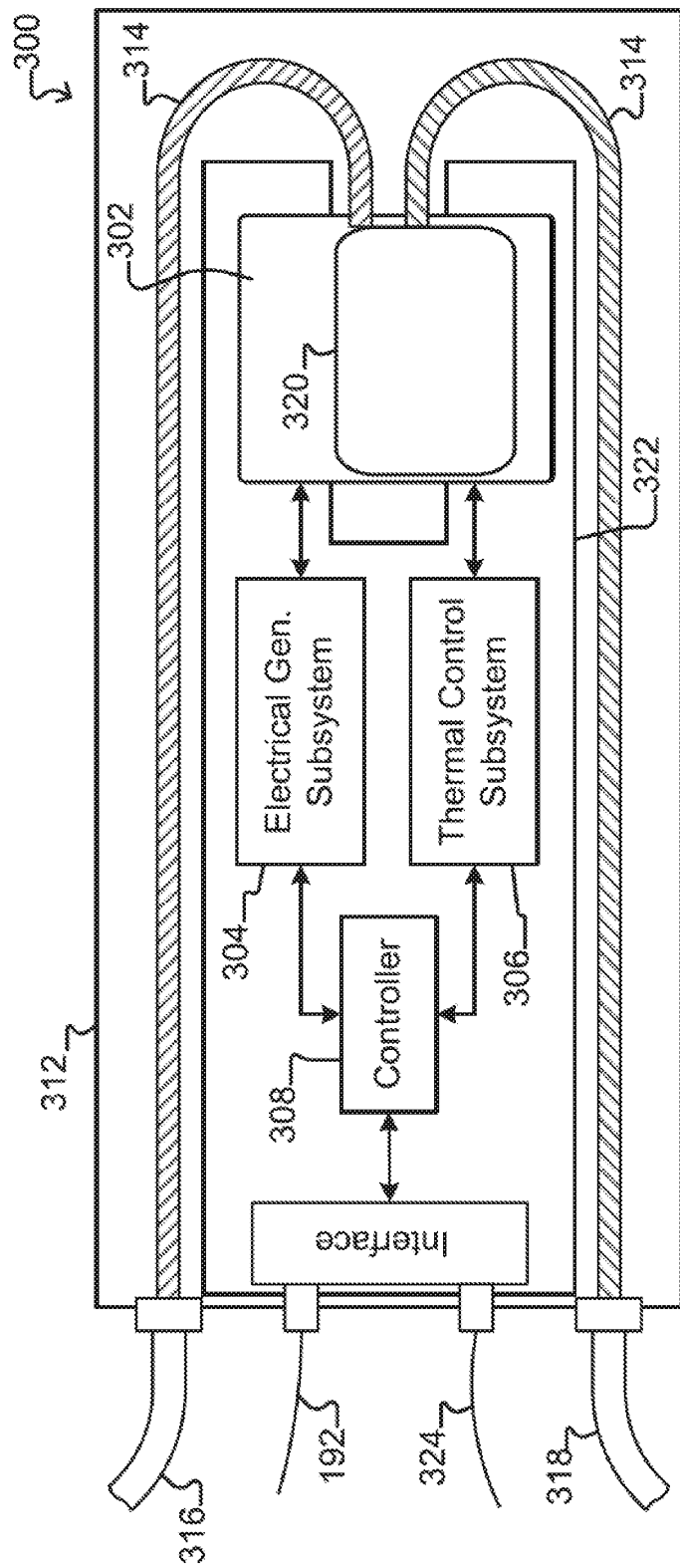


FIG. 3A

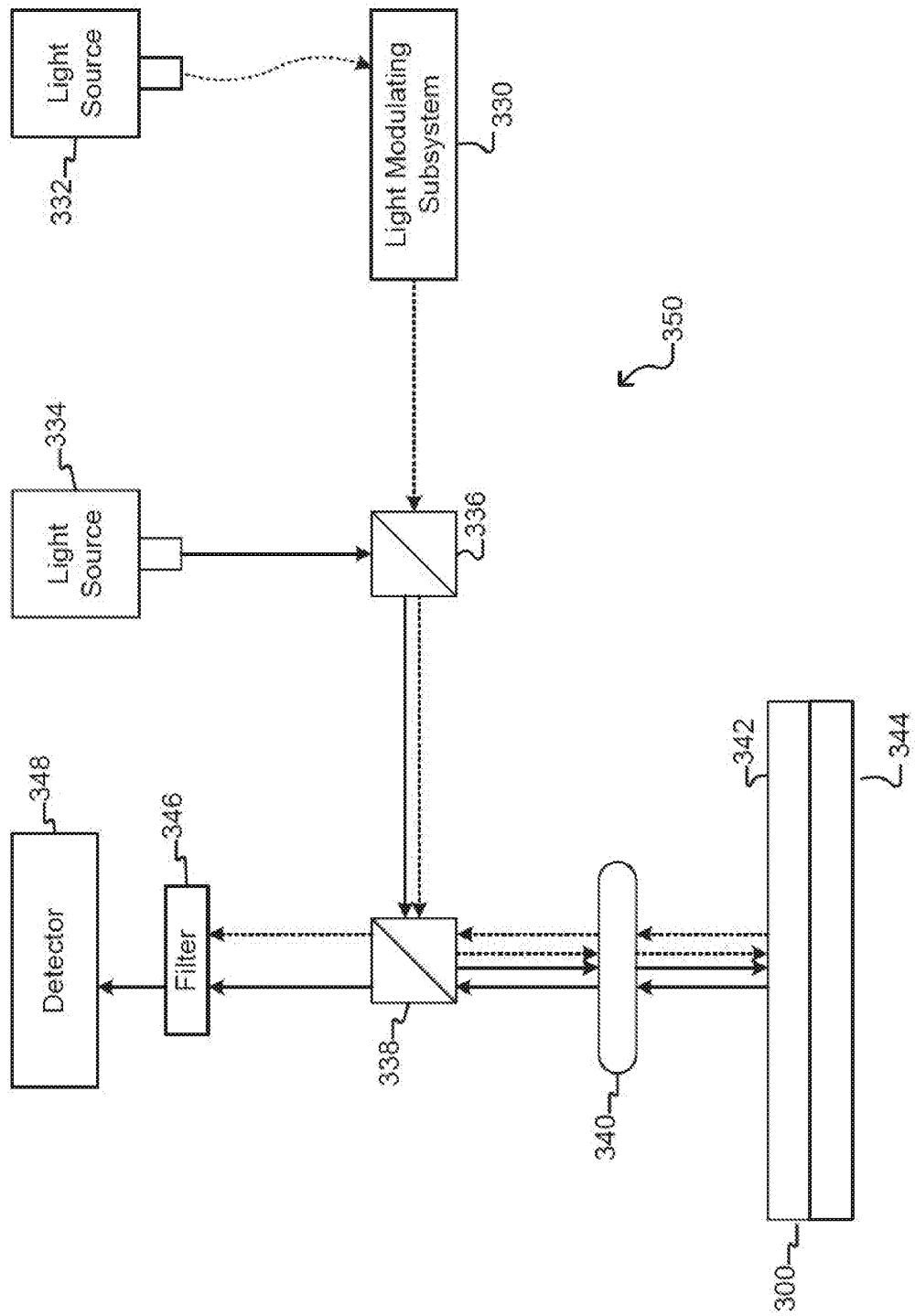


FIG. 3B

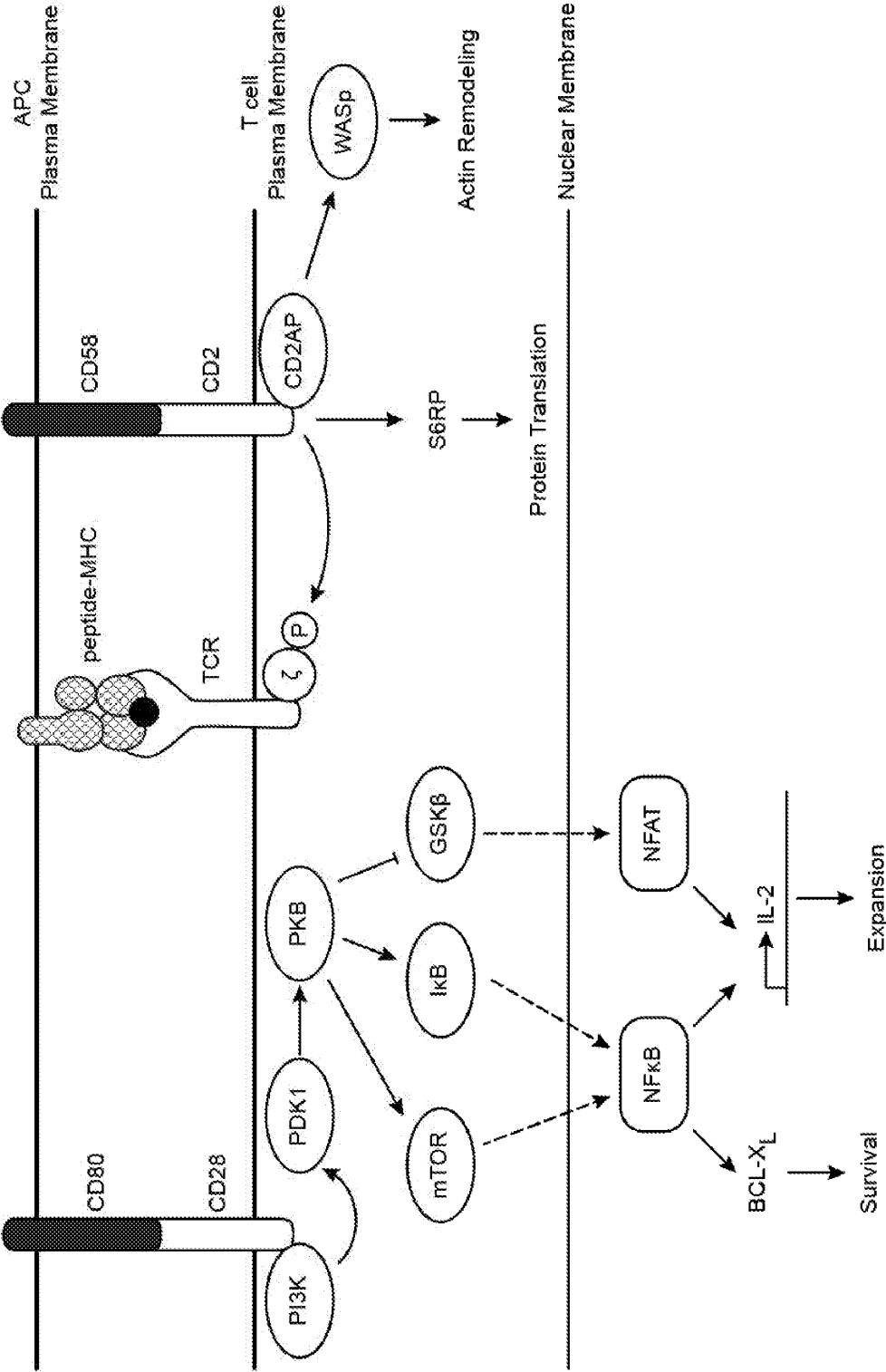
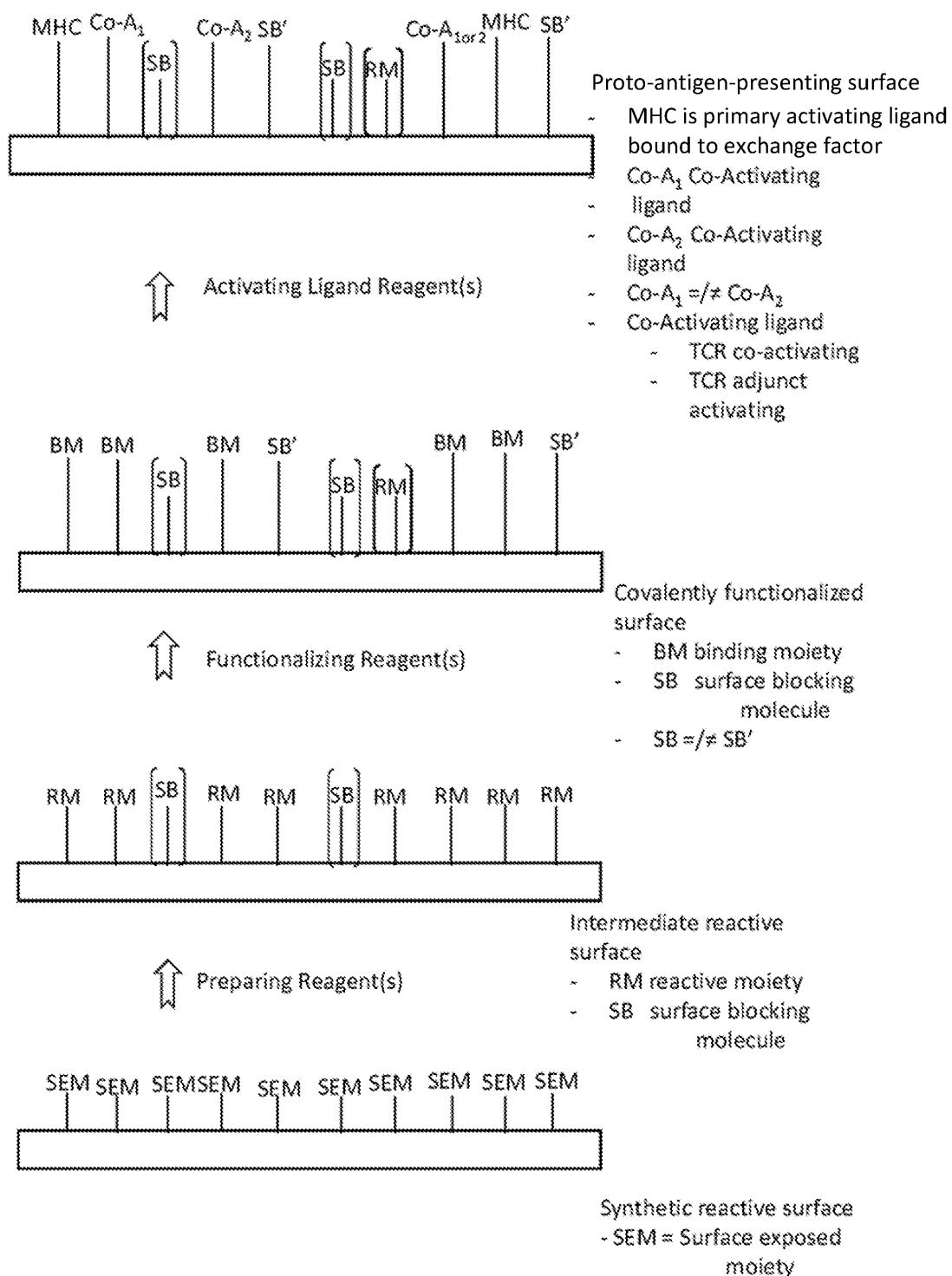
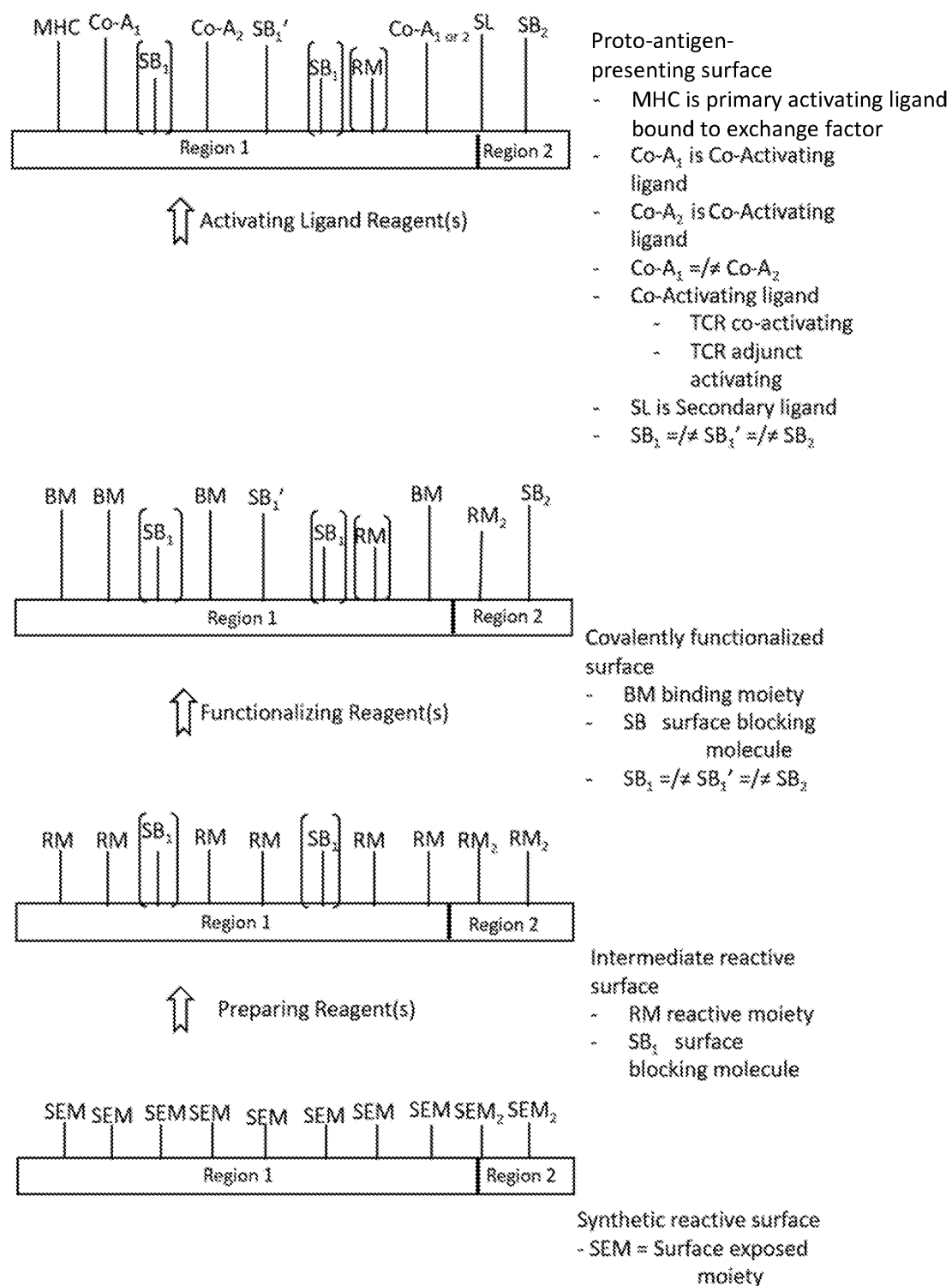


FIG. 4

**FIG. 5A**

**FIG. 5B**

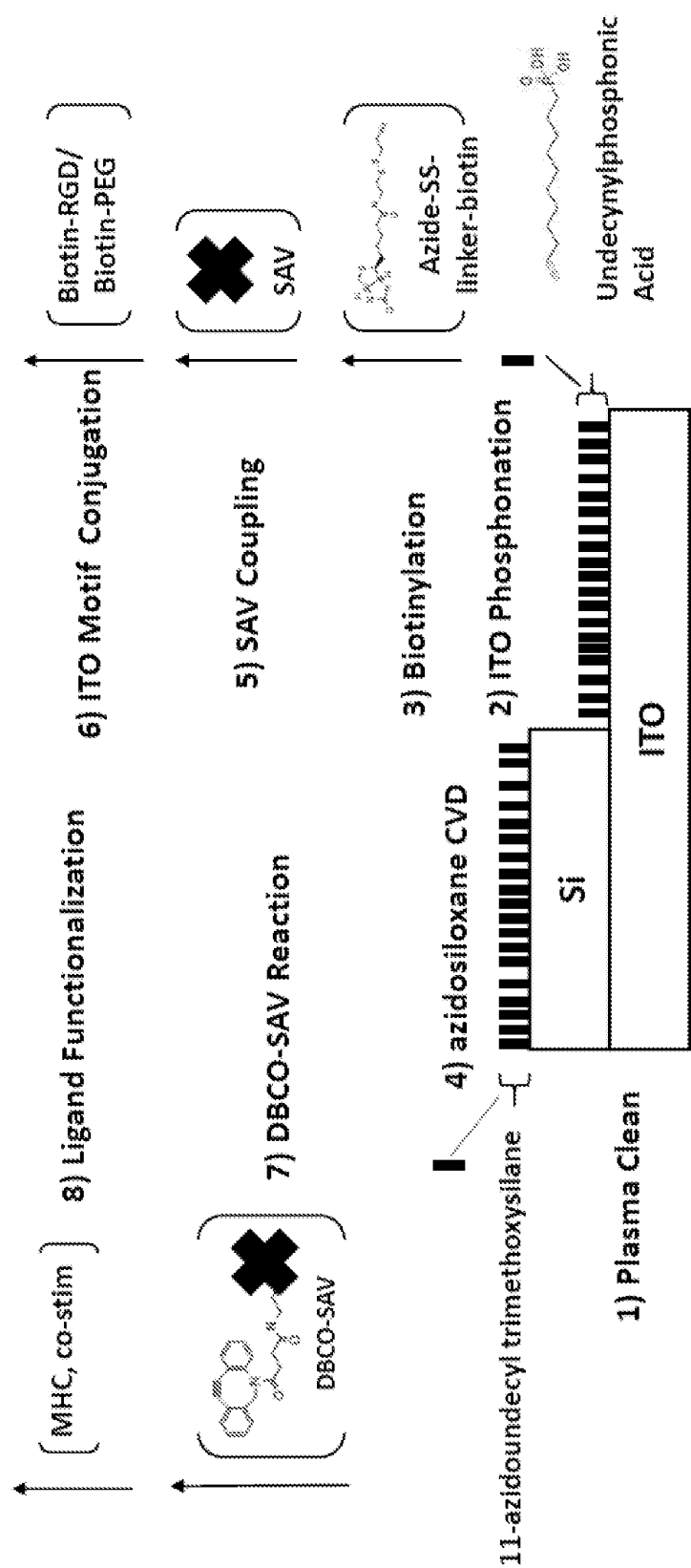


FIG. 6

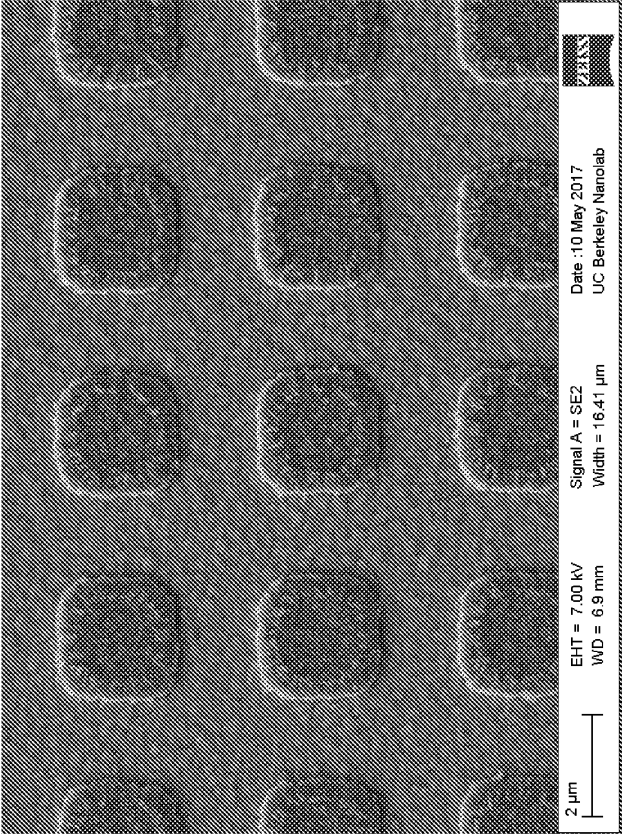


FIG. 7B

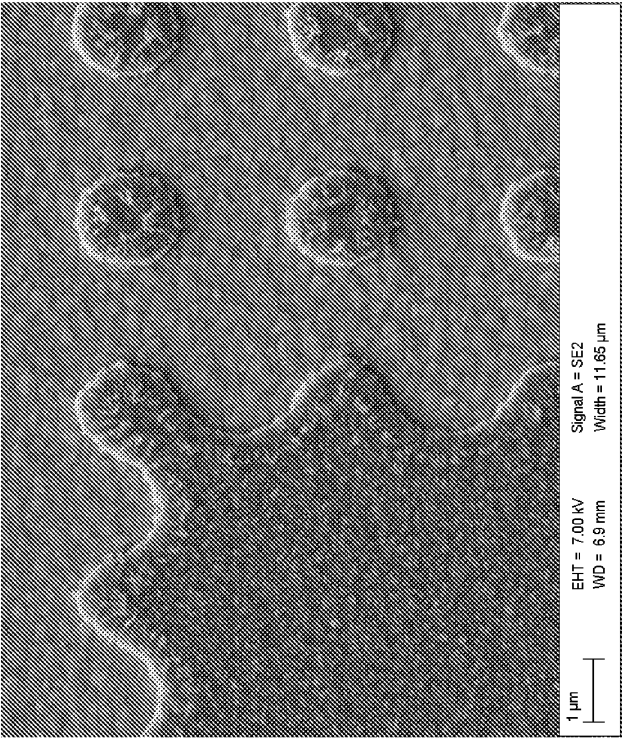


FIG. 7A

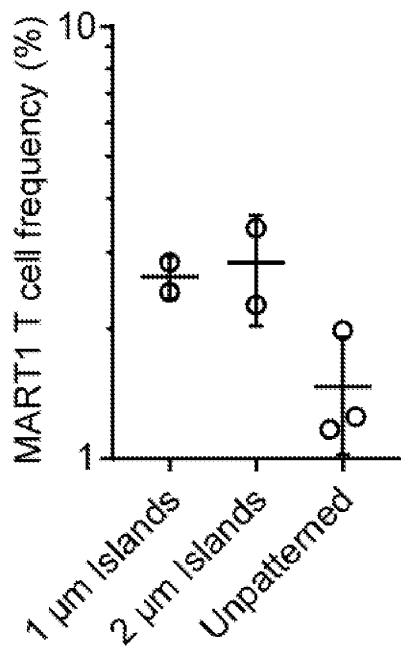


FIG. 8A

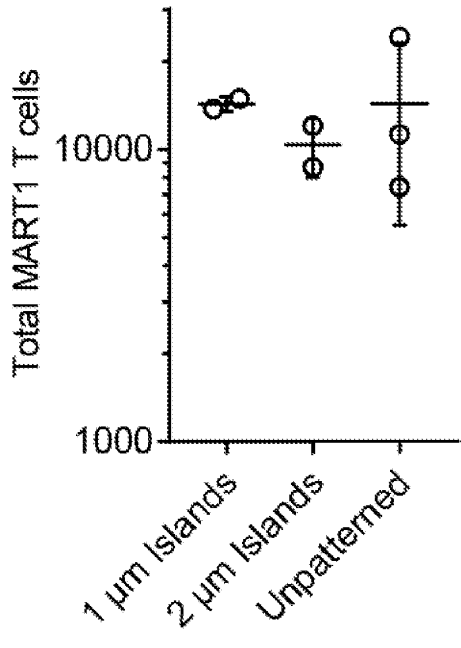


FIG. 8B

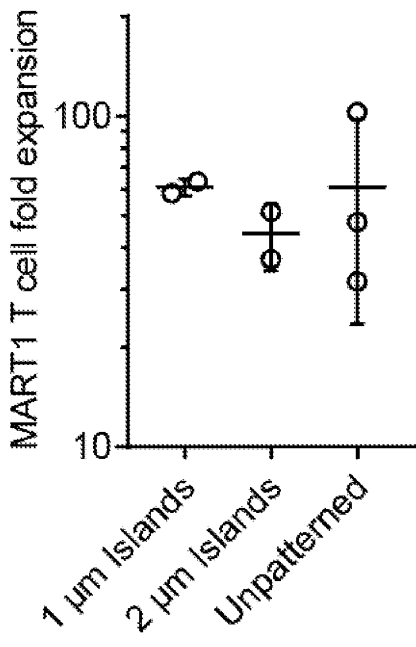


FIG. 8C

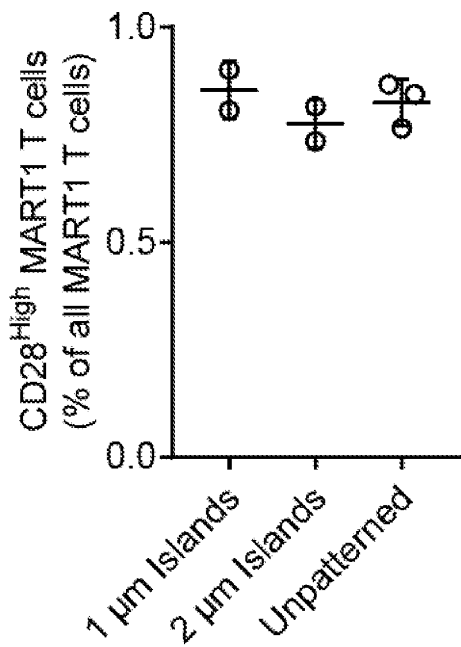
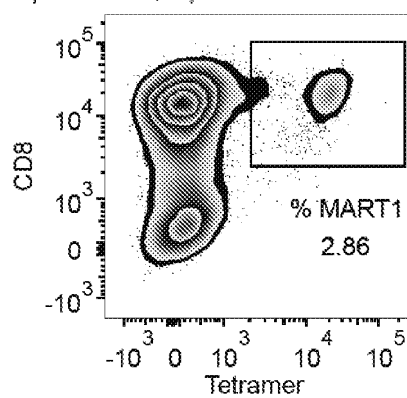
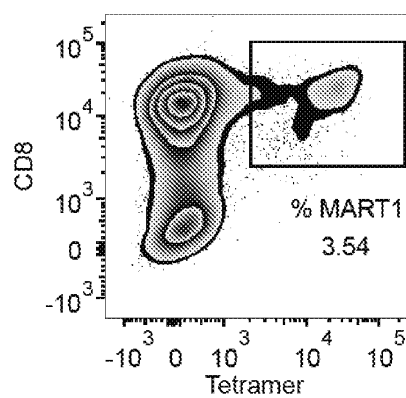
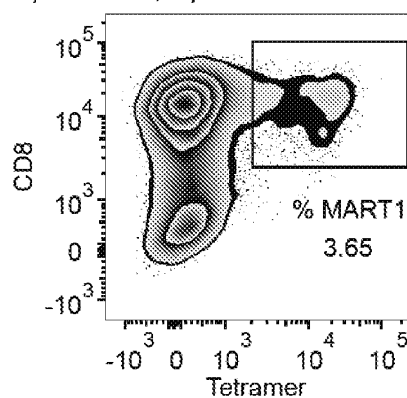
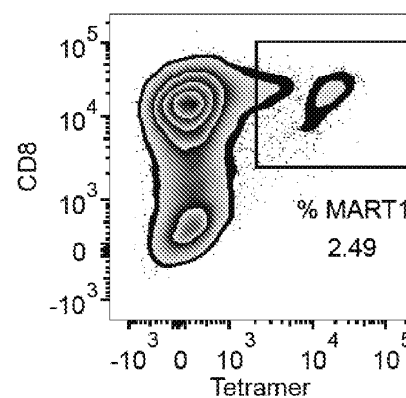
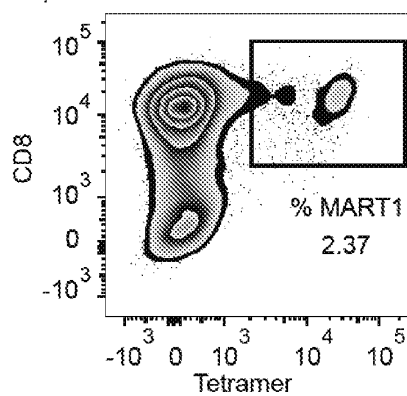
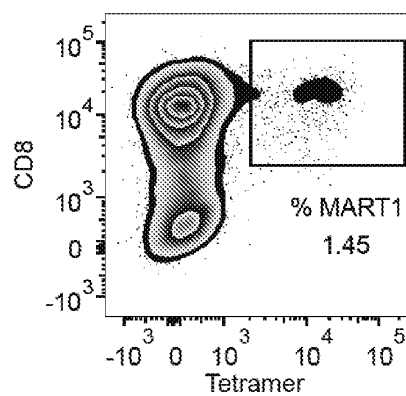


FIG. 8D

1 μm Islands, 3 μm Pitch2 μm Islands, 4 μm Pitch

Unpatterned

**FIG. 9**

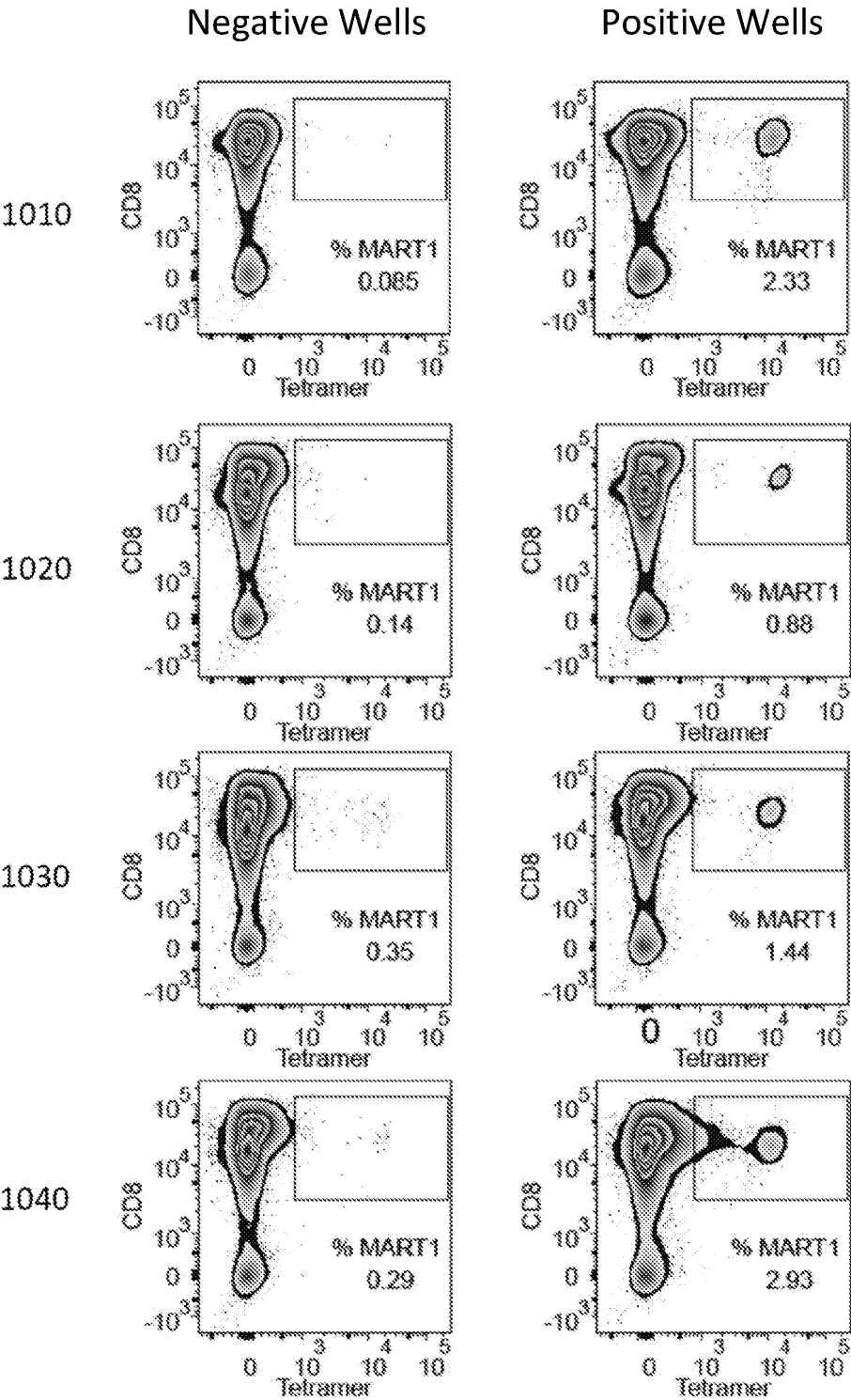


FIG.10

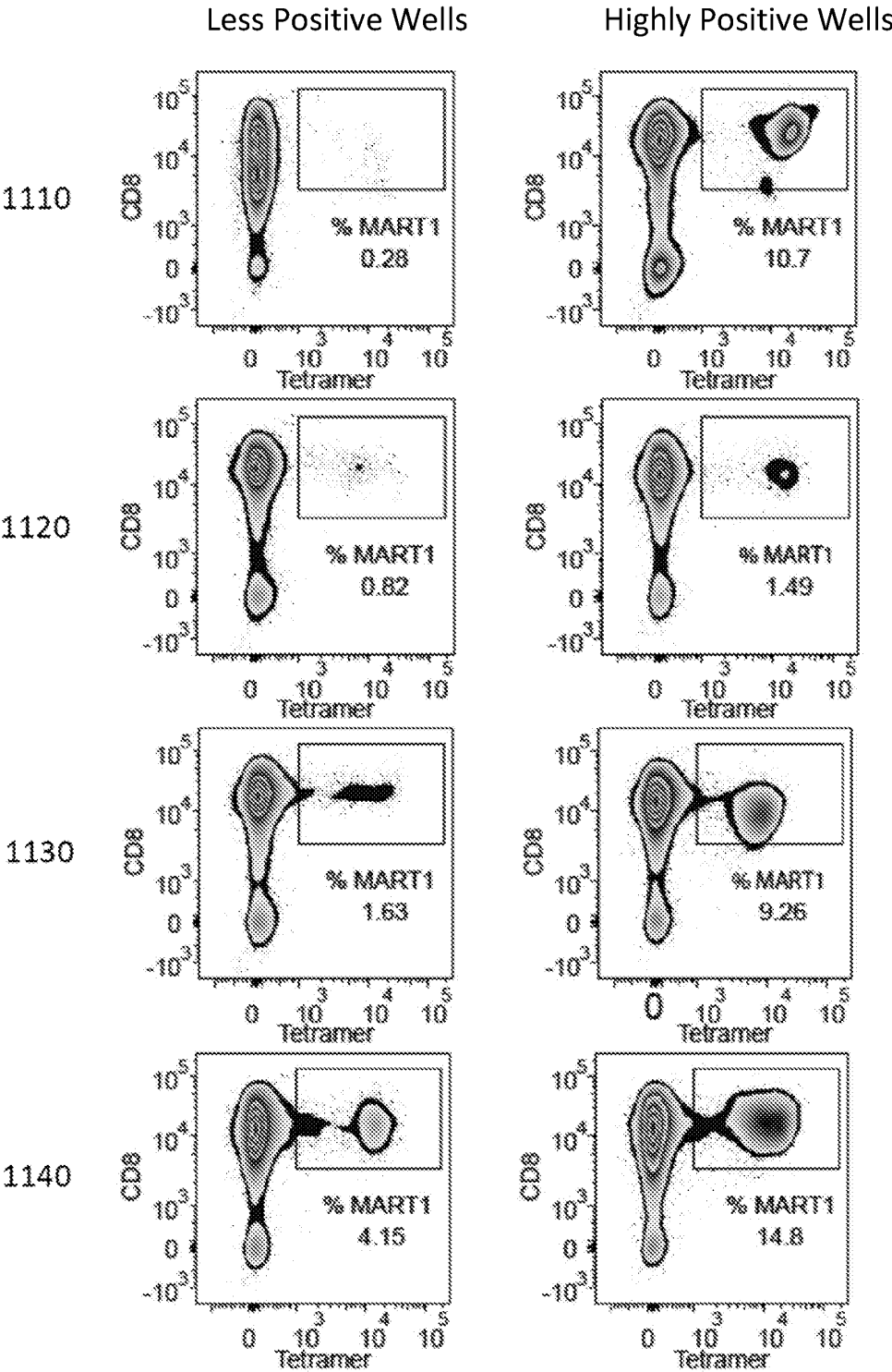


FIG. 11

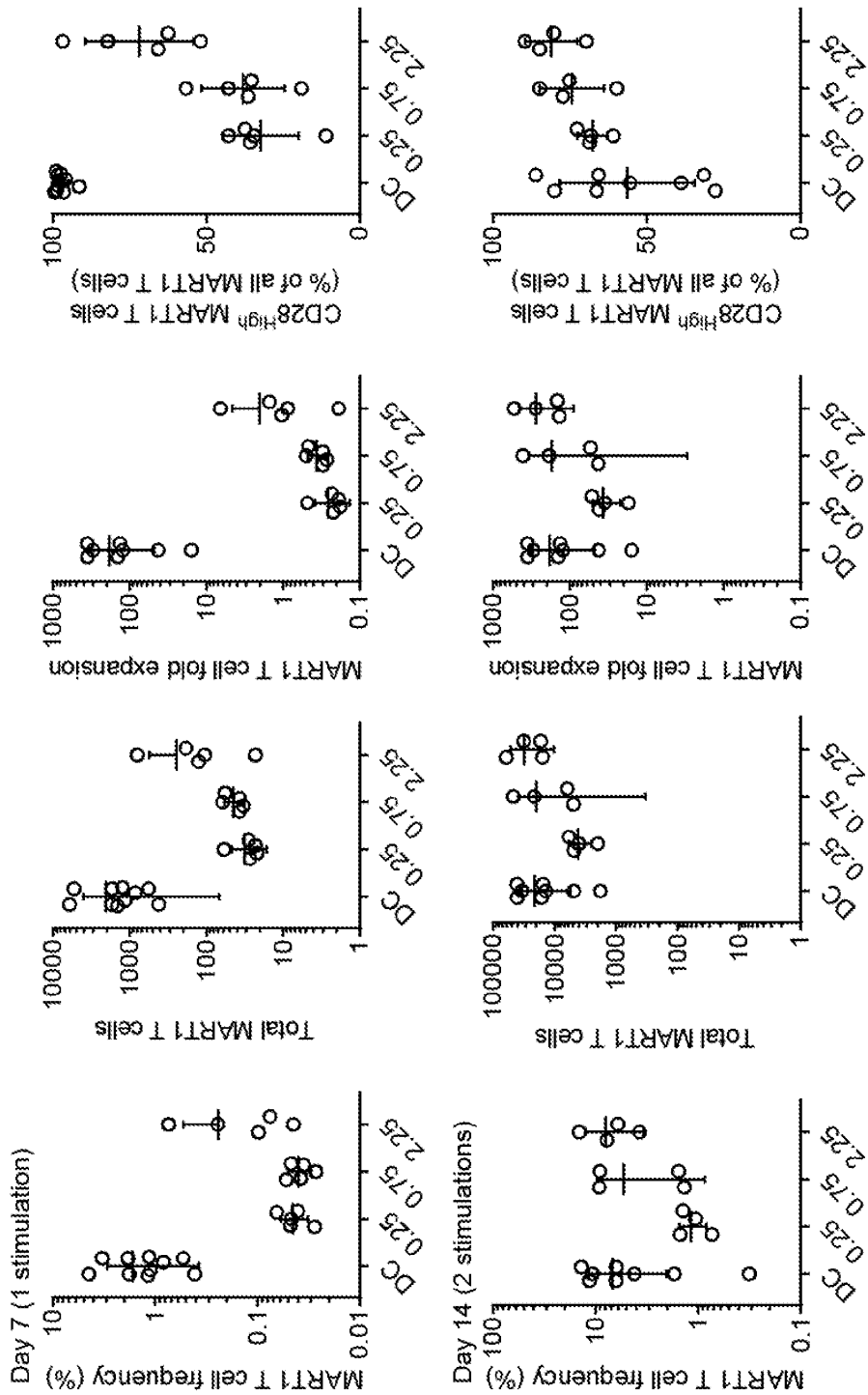
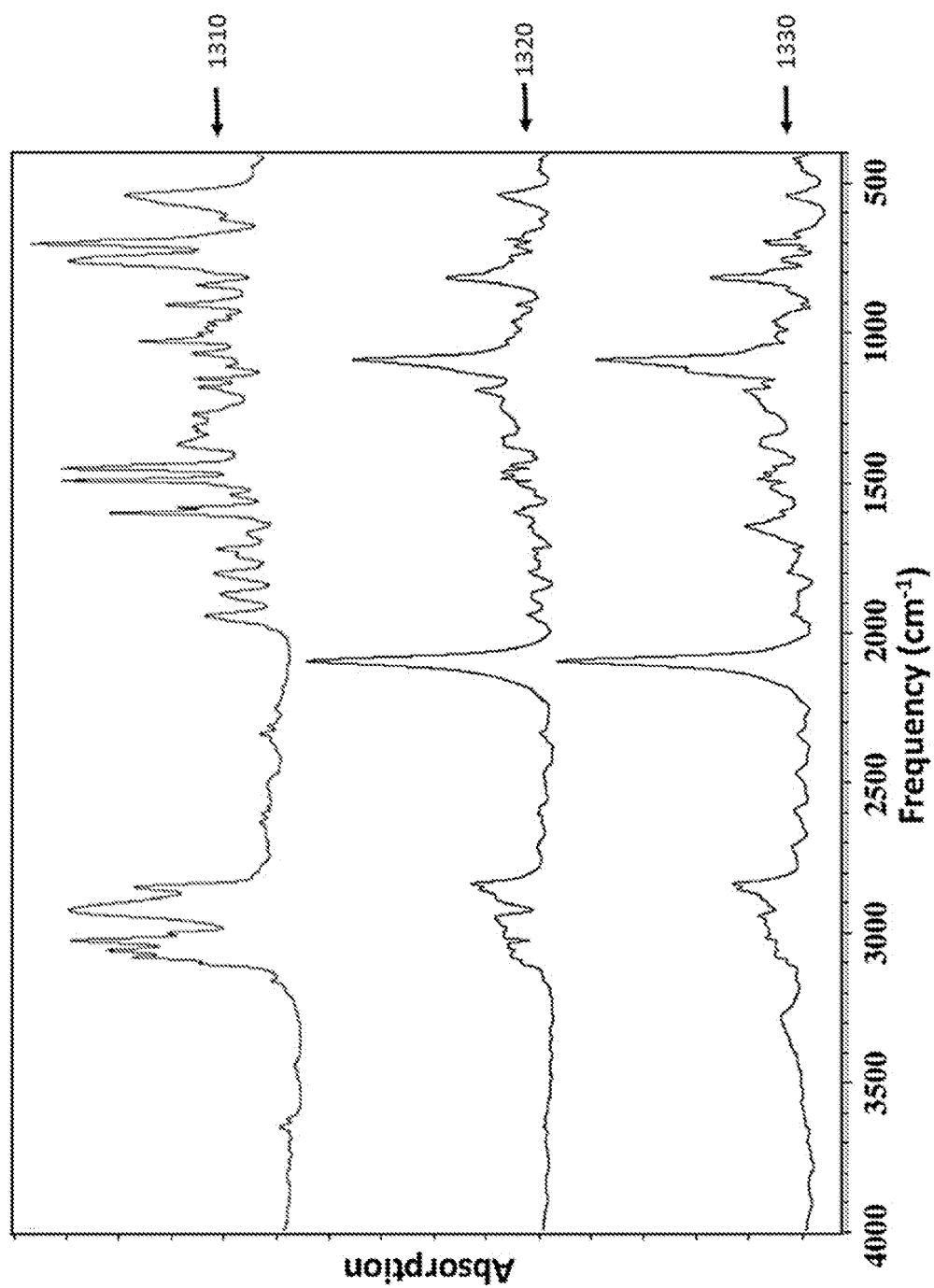


FIG. 12

DC Dendritic cell stimulation
0.25 aAPC stimulation - 0.25 μ g costimulation antibody / 1e7 beads
0.75 aAPC stimulation - 0.75 μ g costimulation antibody / 1e7 beads
2.25 aAPC stimulation - 2.25 μ g costimulation antibody / 1e7 beads

**FIG. 13**

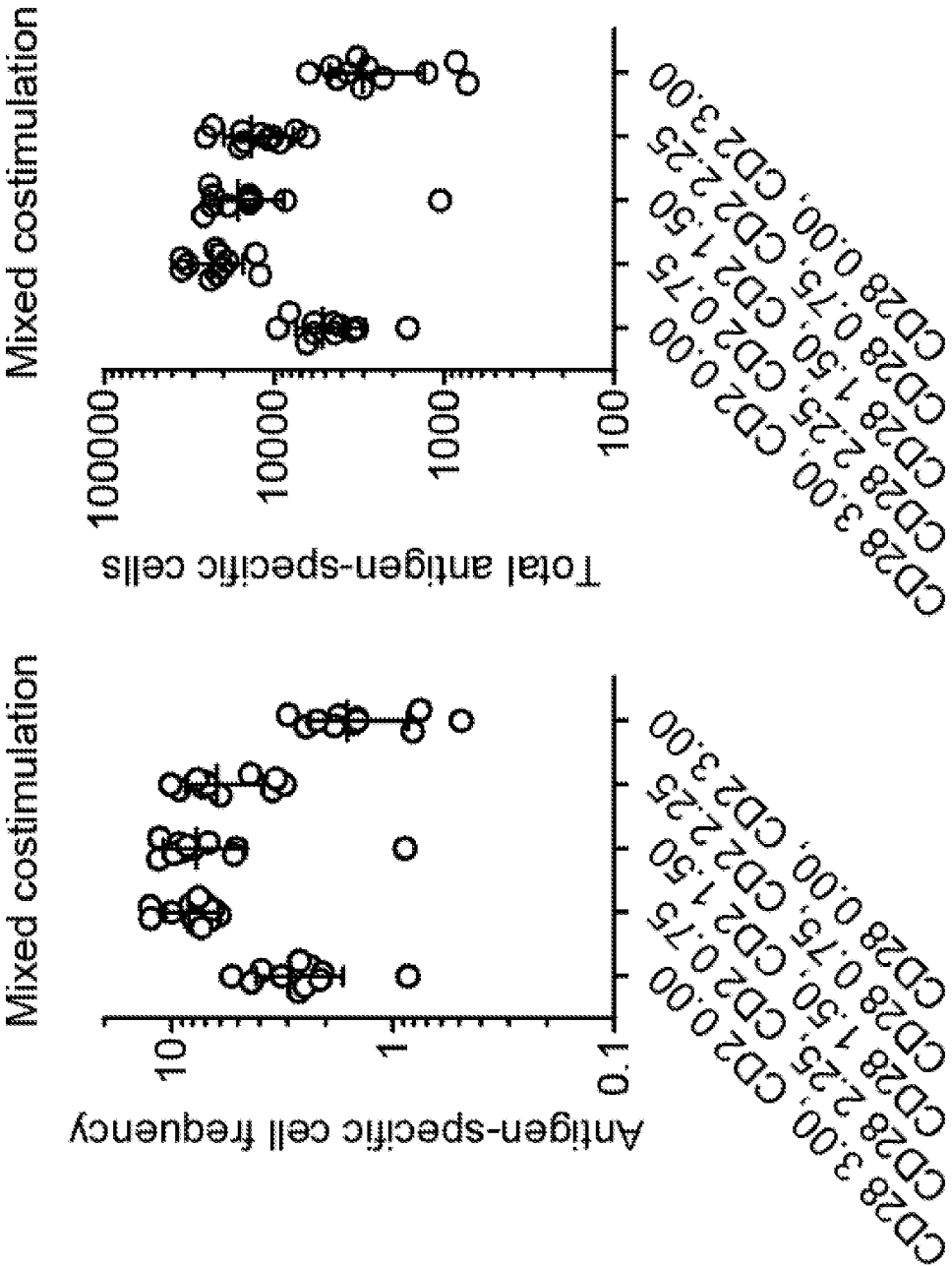


FIG. 14B

FIG. 14A

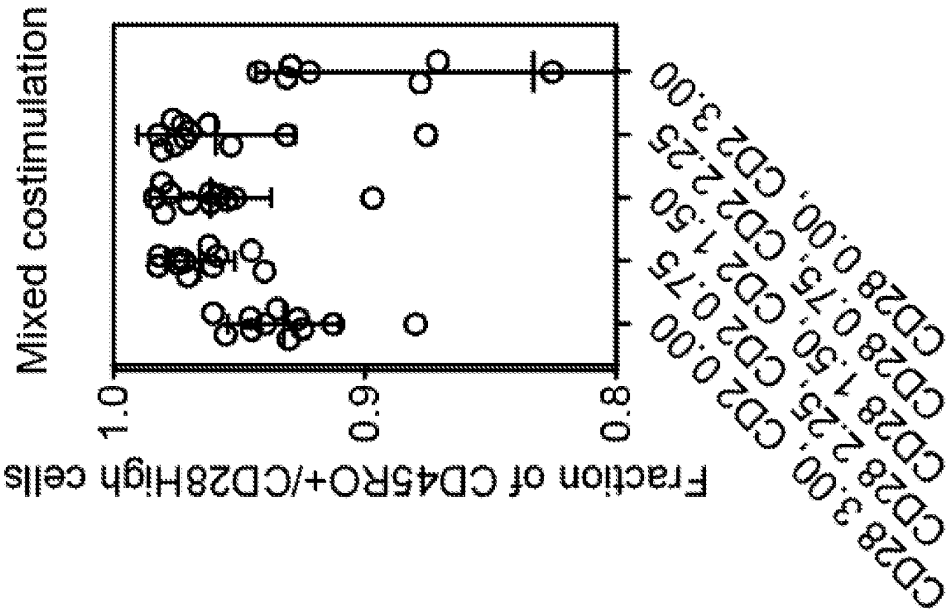


FIG. 14D

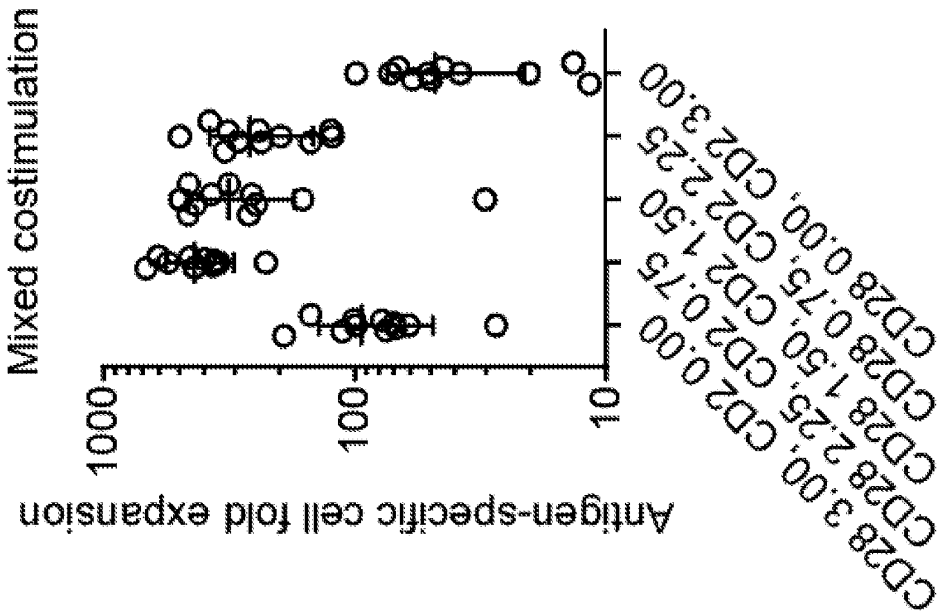


FIG. 14C

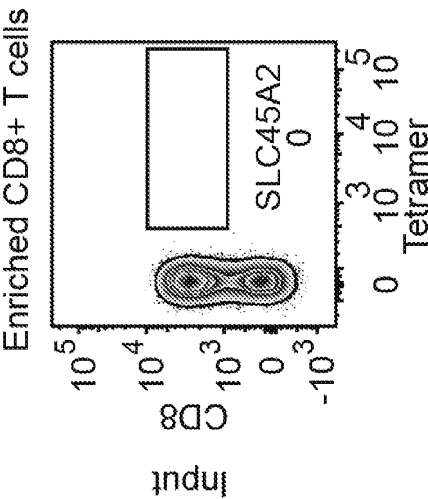


FIG. 15A

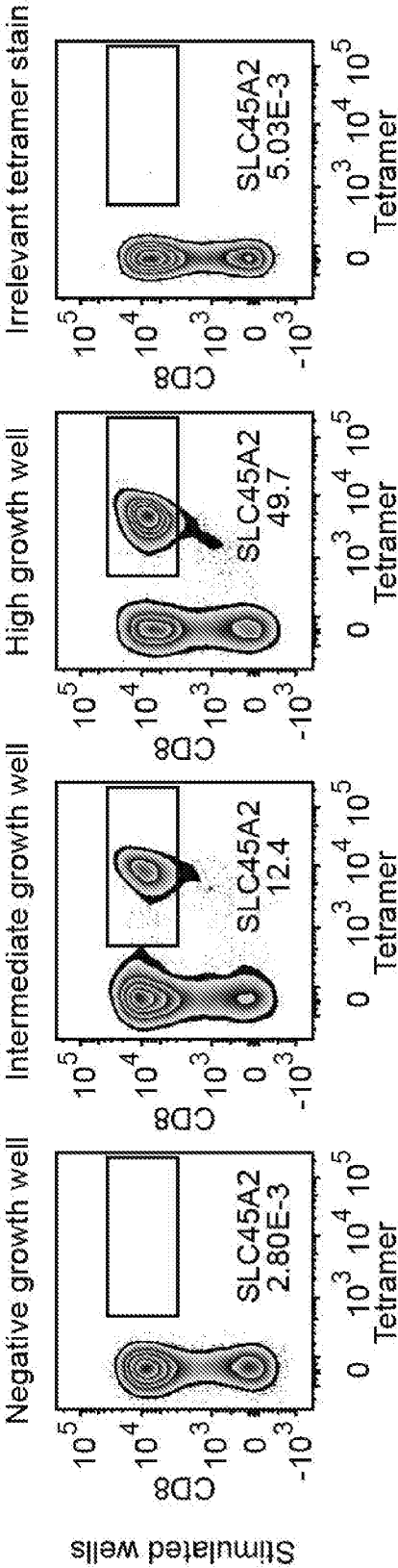


FIG. 15B

FIG. 15C

FIG. 15D

FIG. 15E

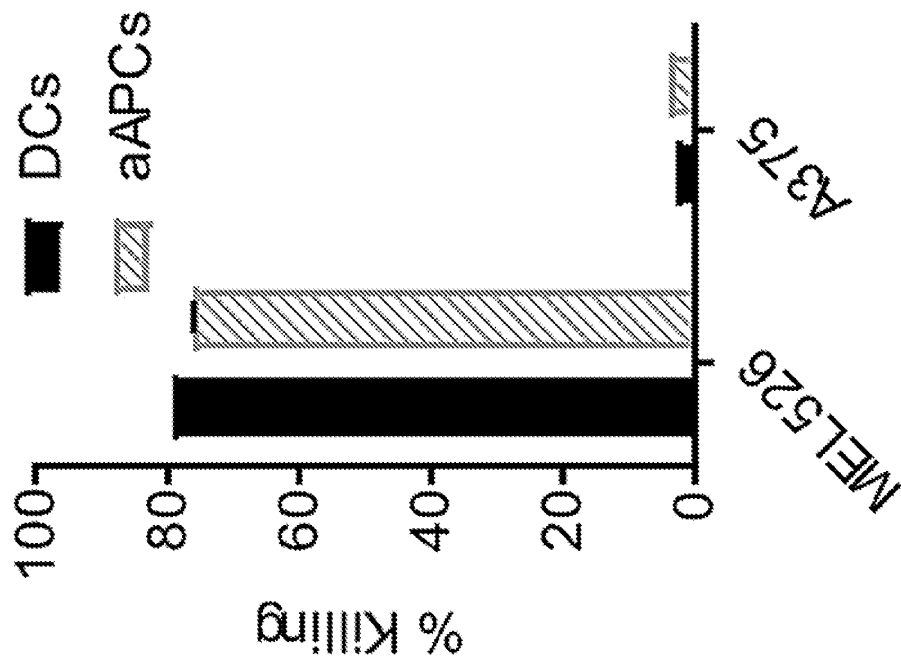


FIG. 17

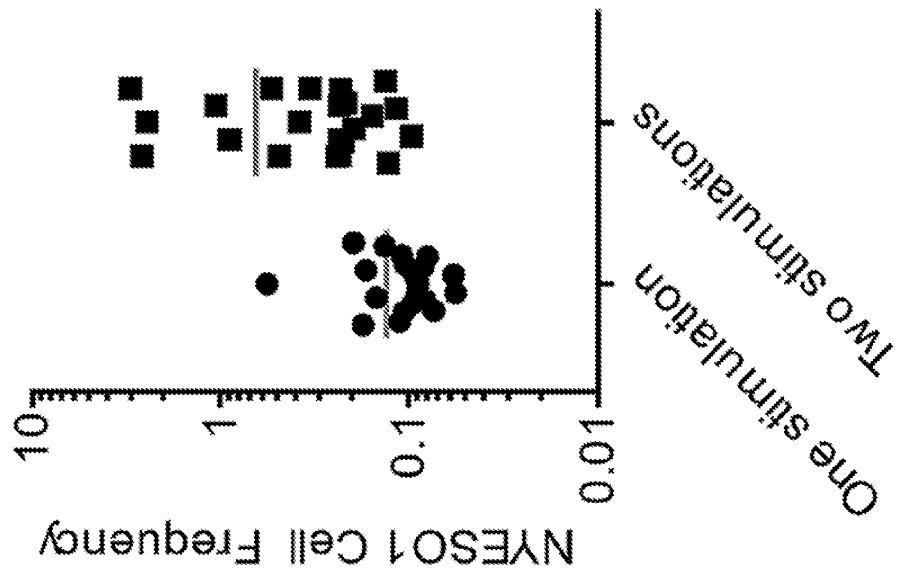


FIG. 16

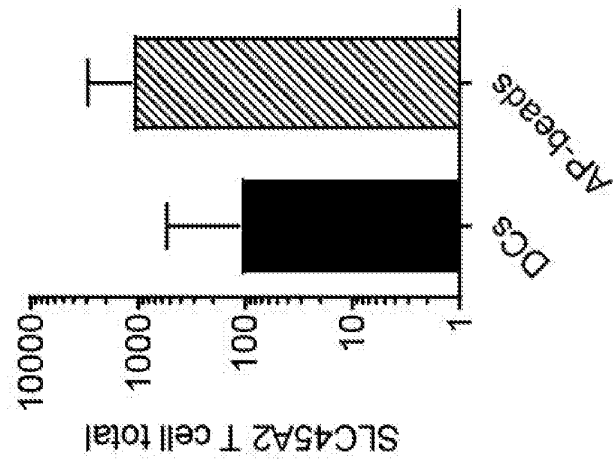


FIG. 18C

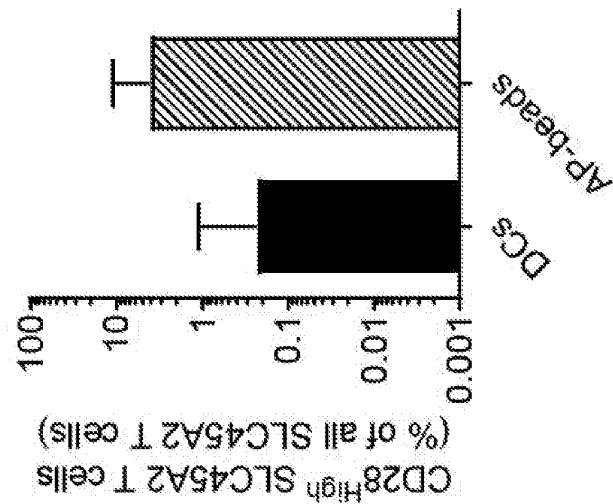


FIG. 18B

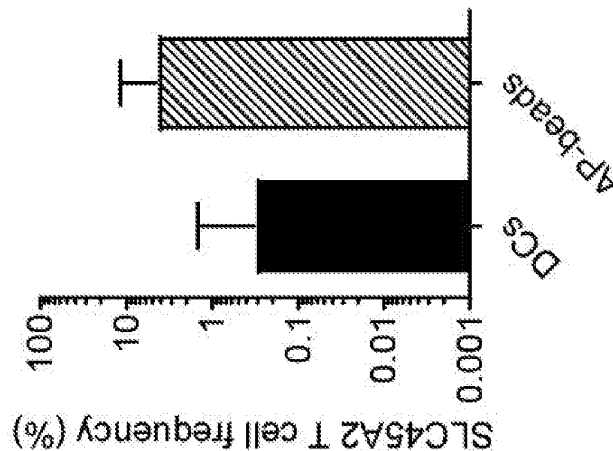


FIG. 18A

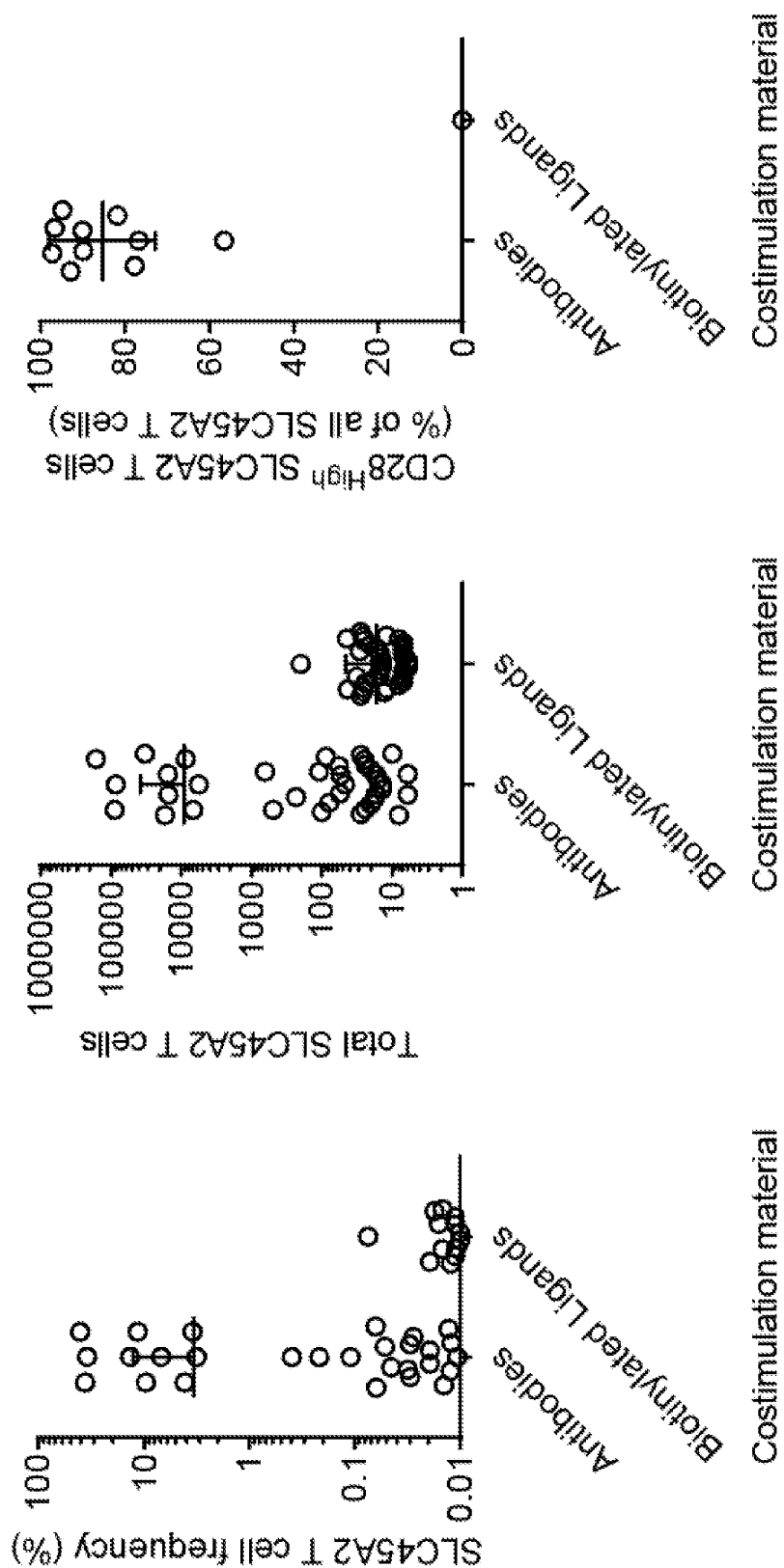


FIG. 19C

FIG. 19B

FIG. 19A

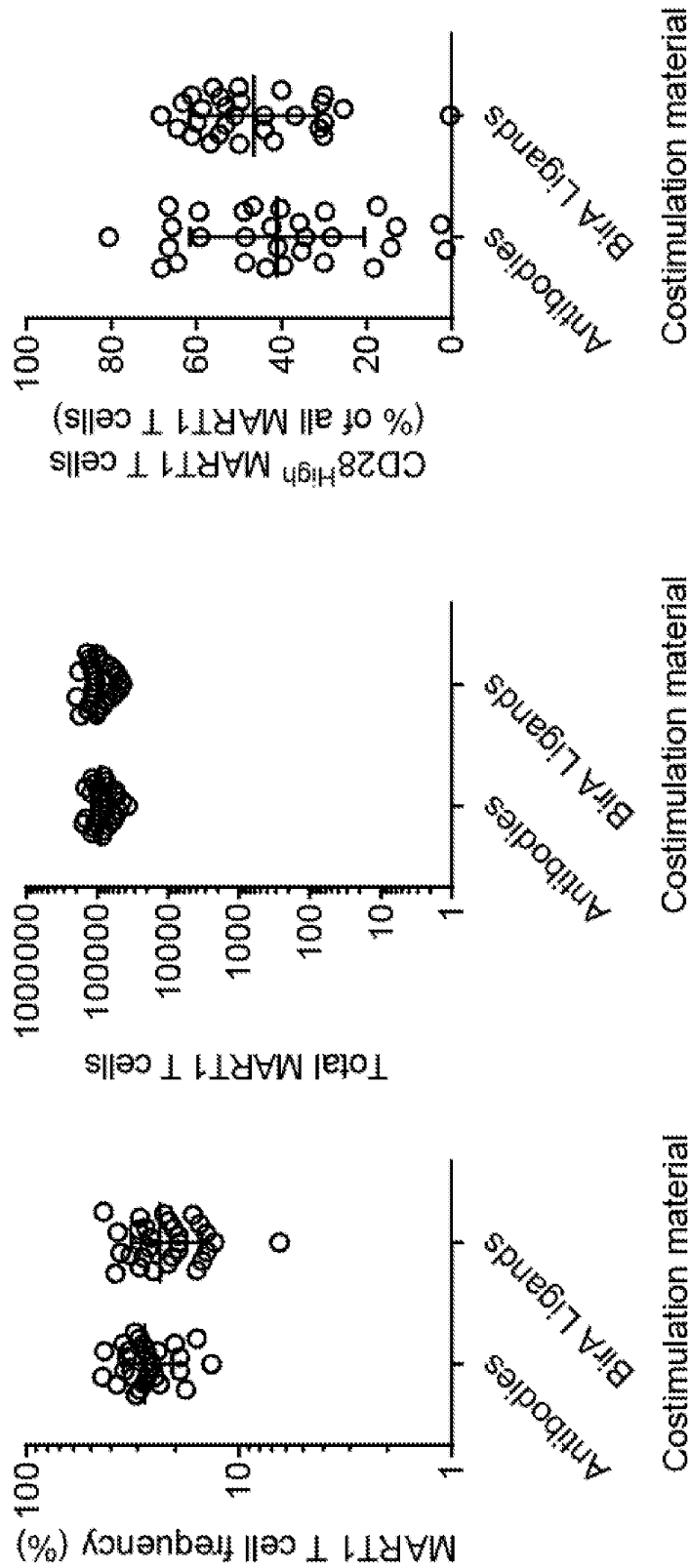
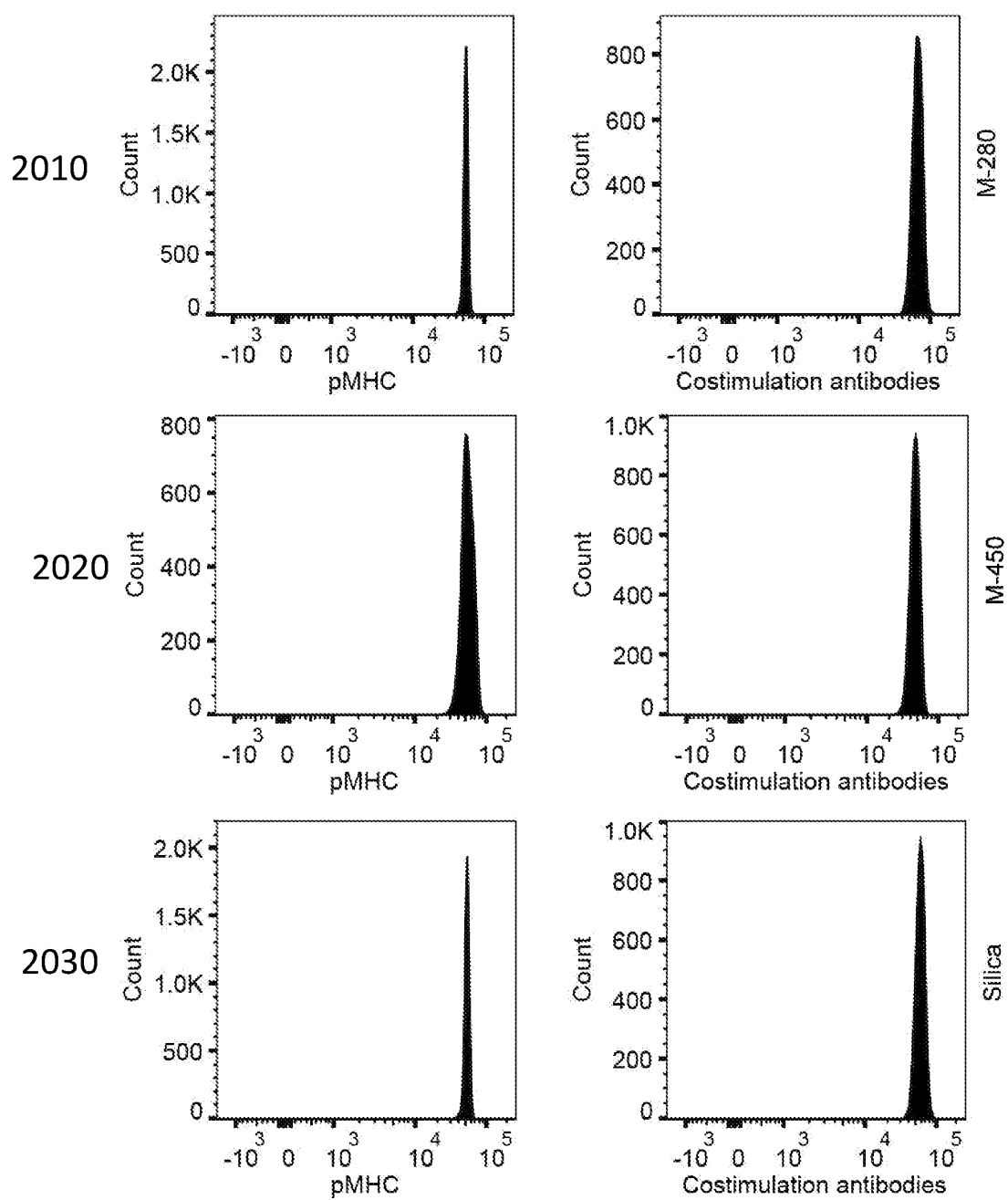
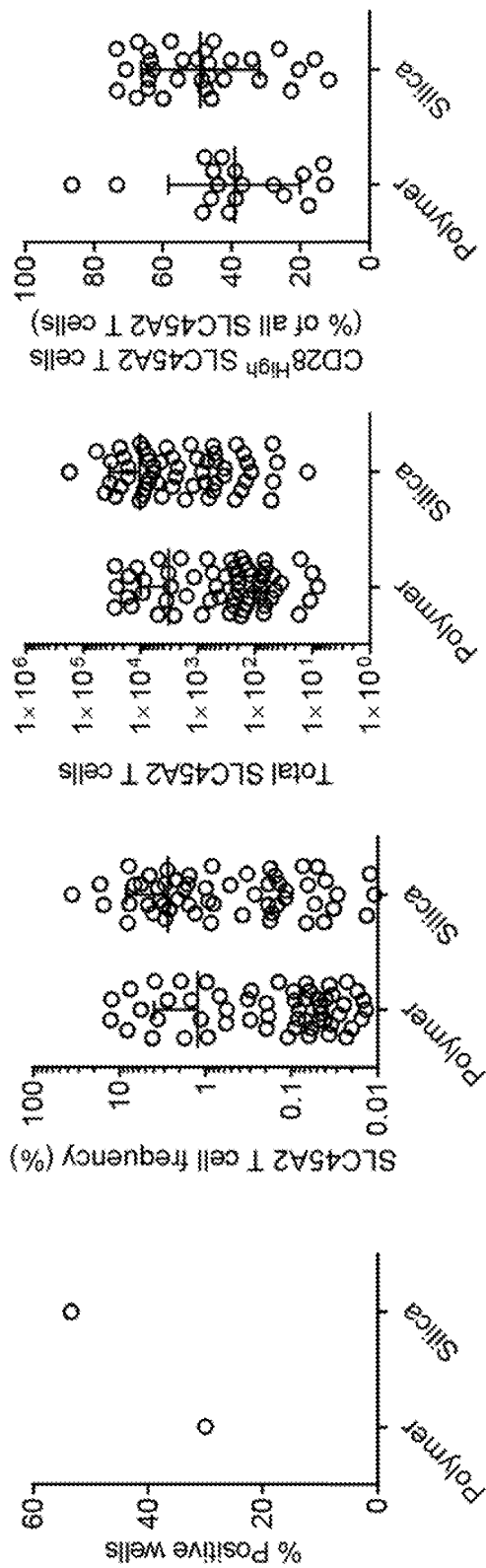


FIG. 19D

FIG. 19E

FIG. 19F

**FIG. 20A**



Polymer = convoluted 2.8 micron polymeric bead

FIG. 20B

FIG. 20C

FIG. 20D

FIG. 20E

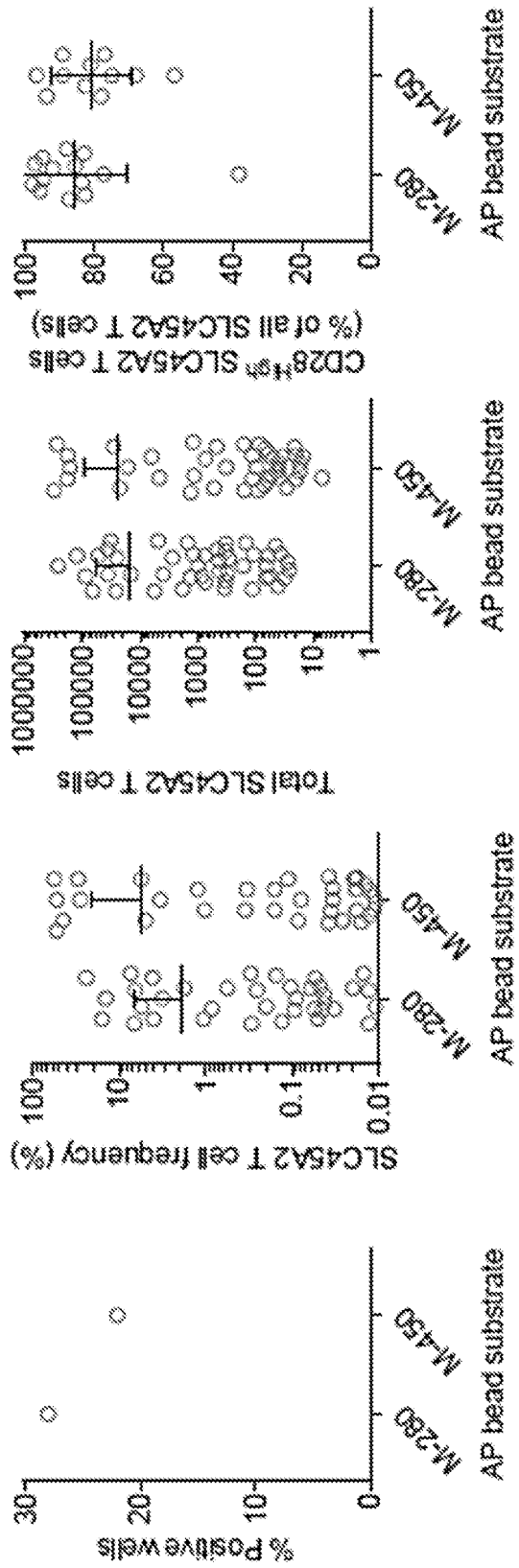
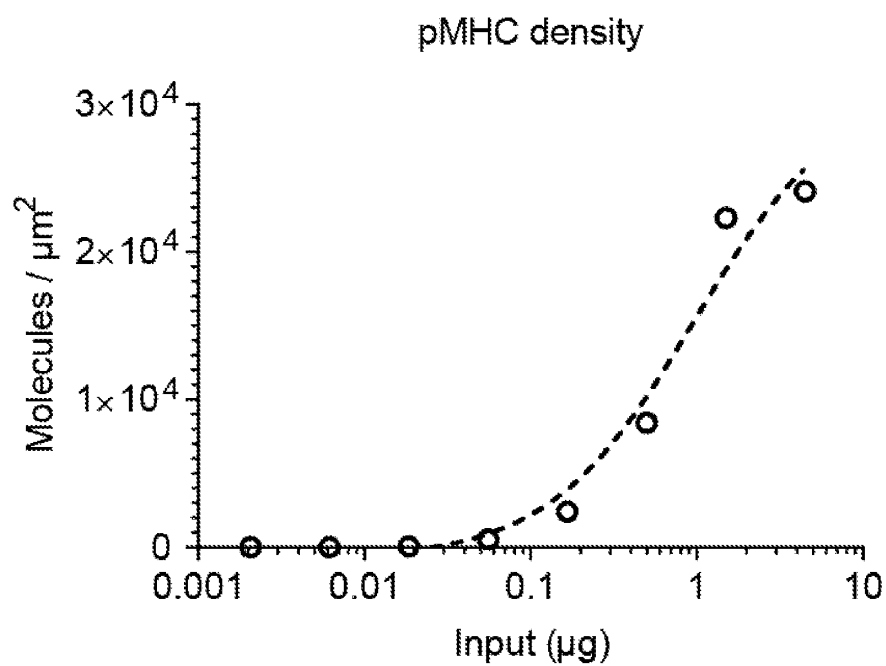
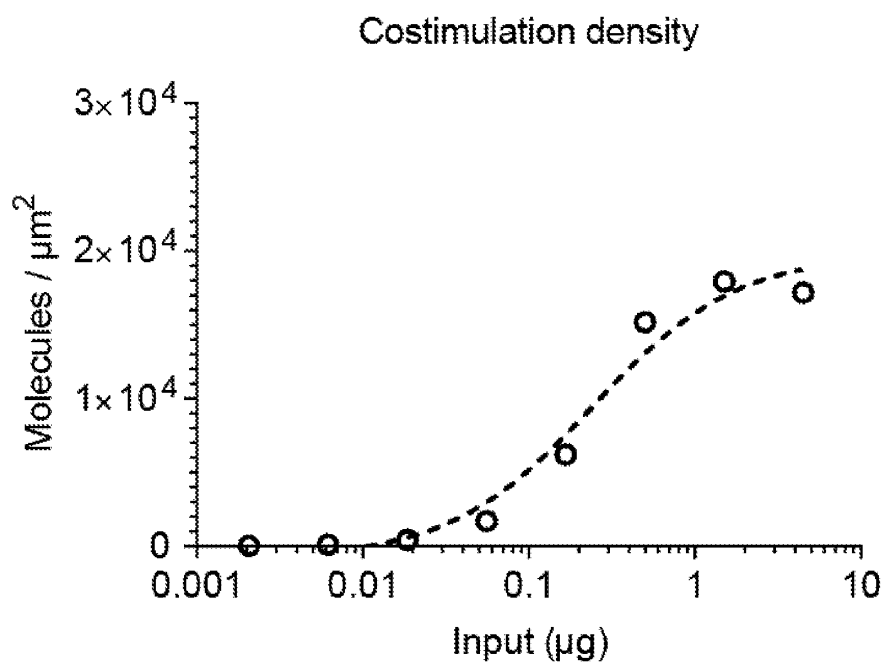


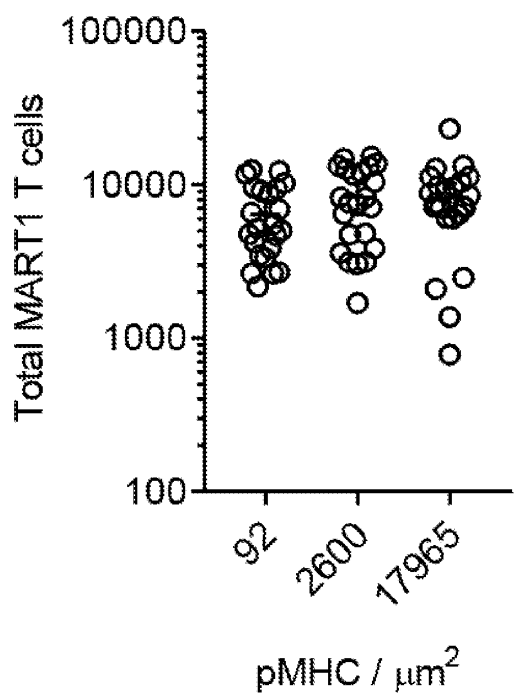
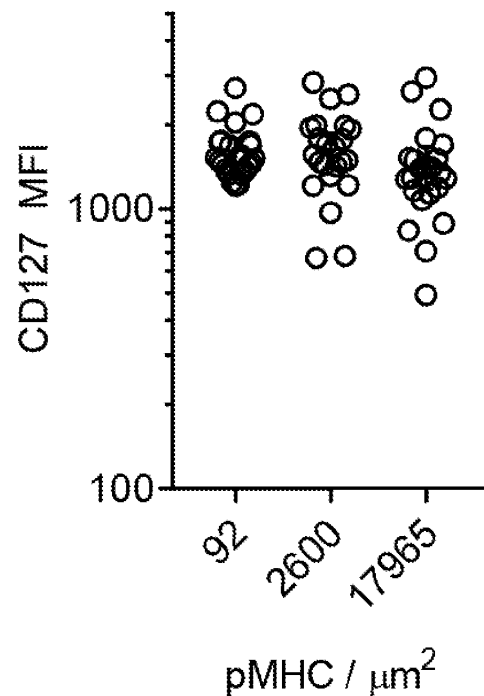
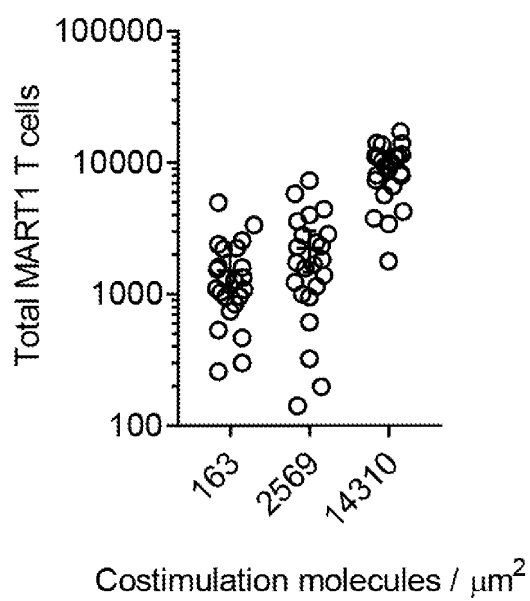
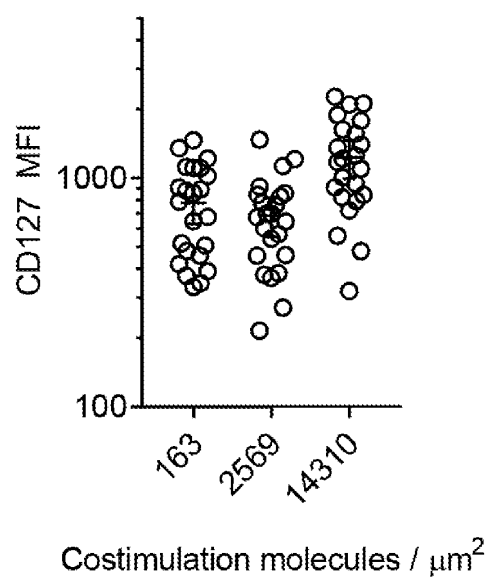
FIG. 20F

FIG. 20G

FIG. 20H

FIG. 20I

**FIG. 21A****FIG. 21B**

**FIG. 21C****FIG. 21D****FIG. 21E****FIG. 21F**

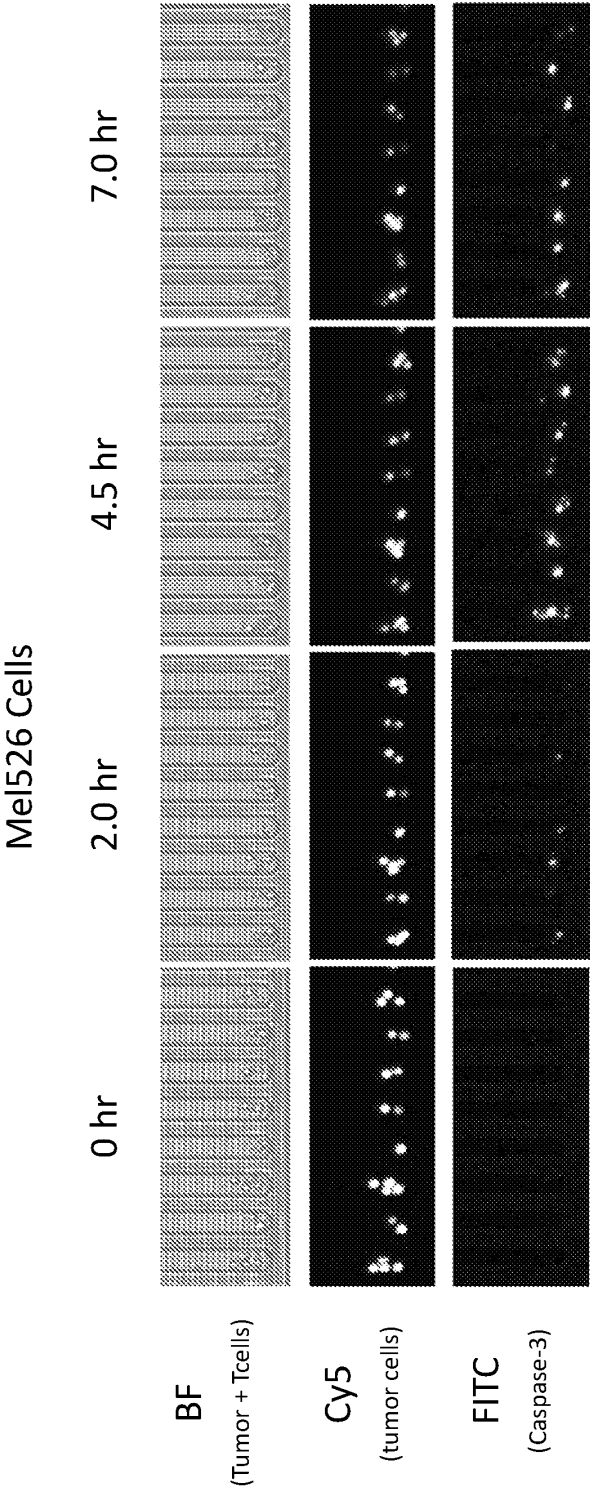
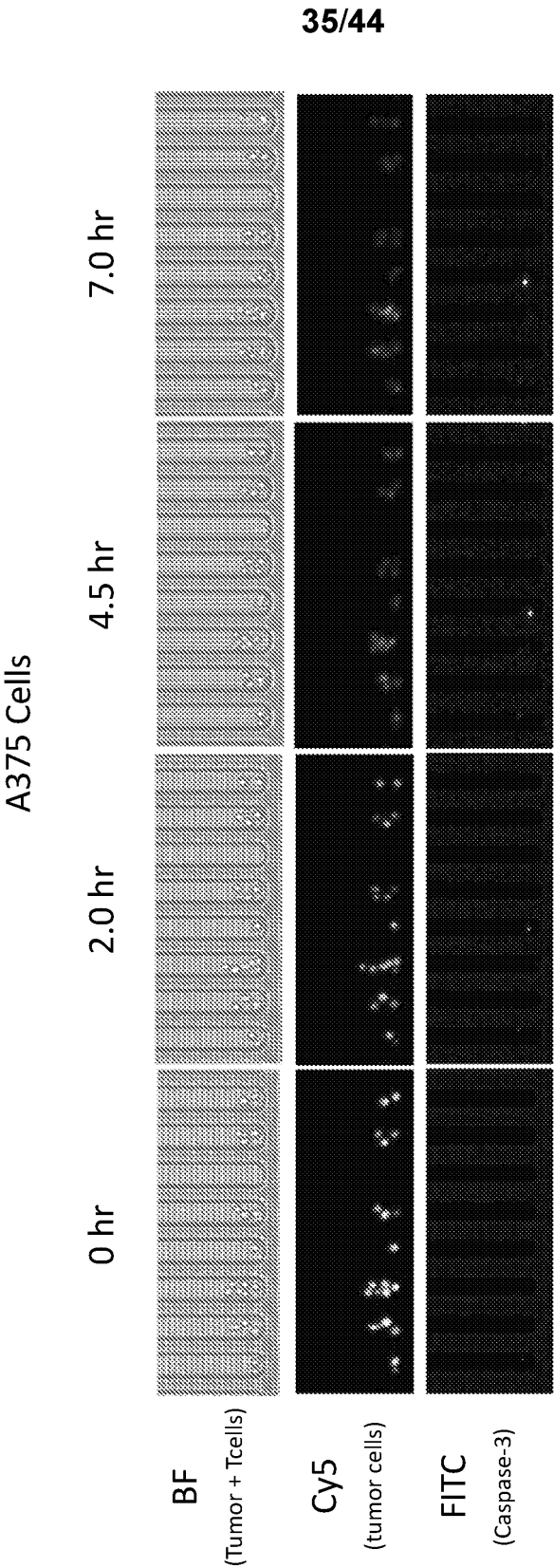


FIG. 22A



35/44

FIG. 22B

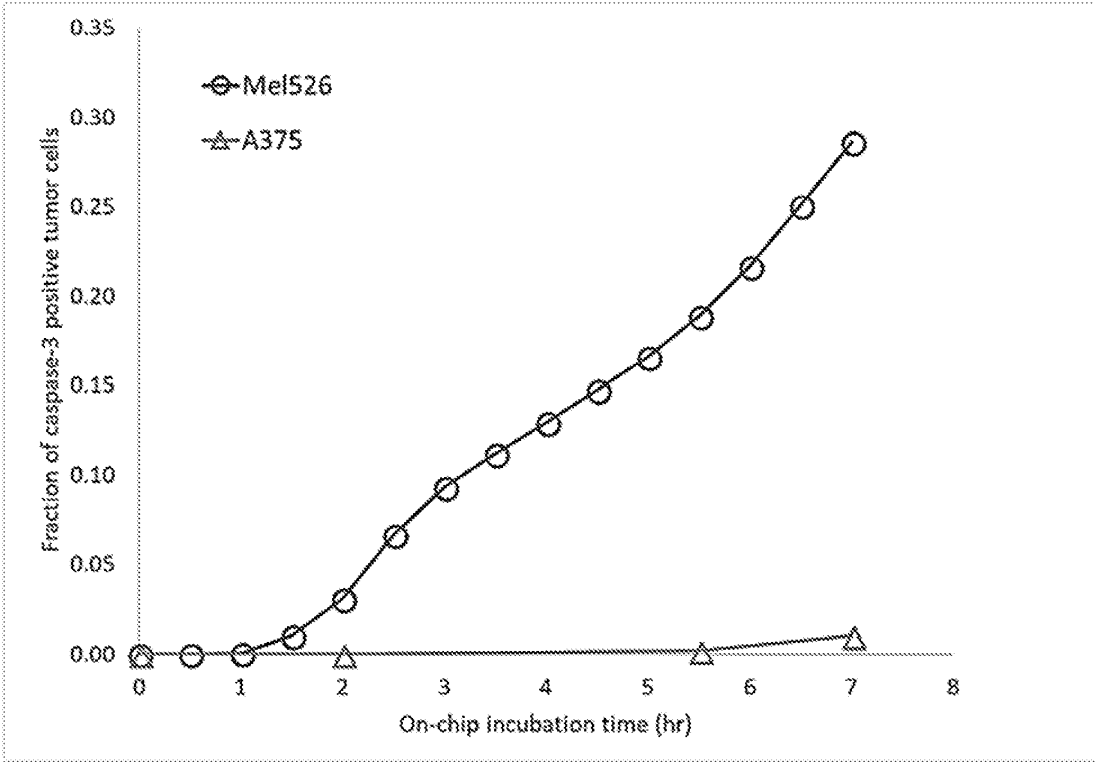


FIG. 22C

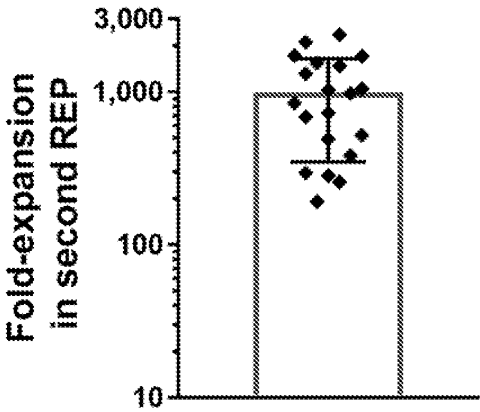


FIG. 23A

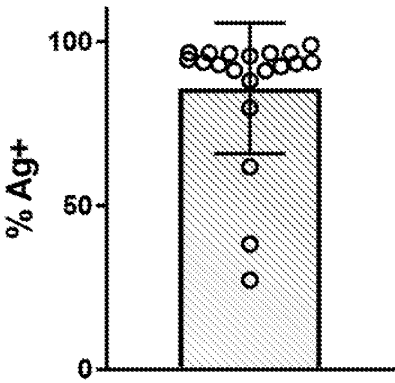


FIG. 23B

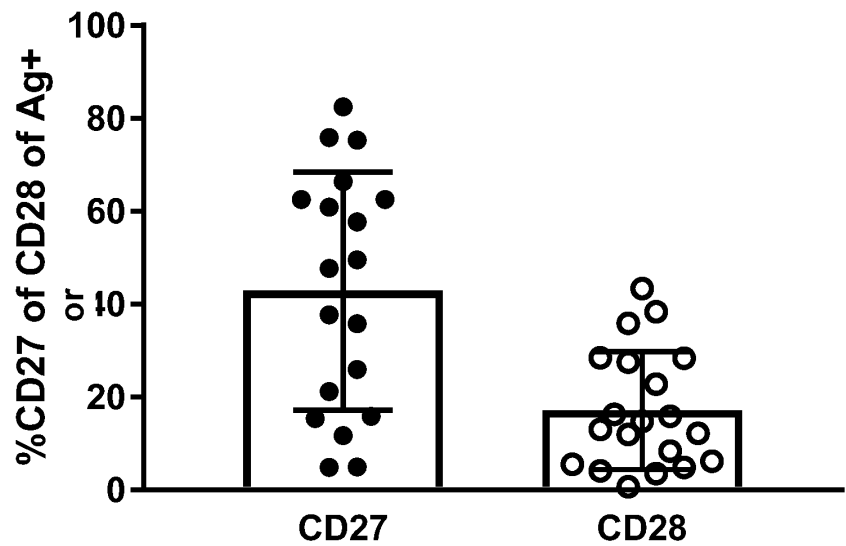


FIG. 23C

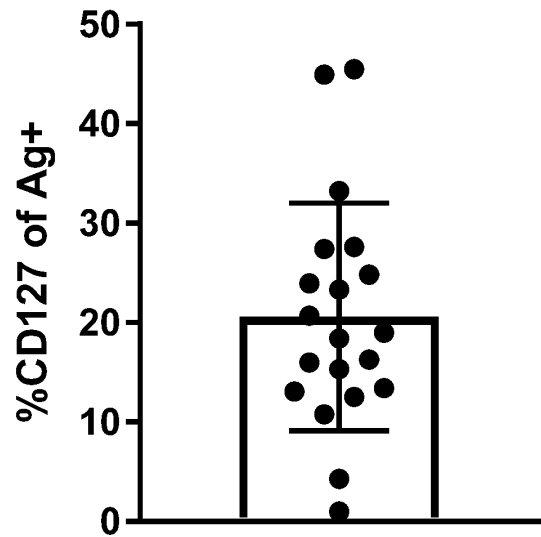
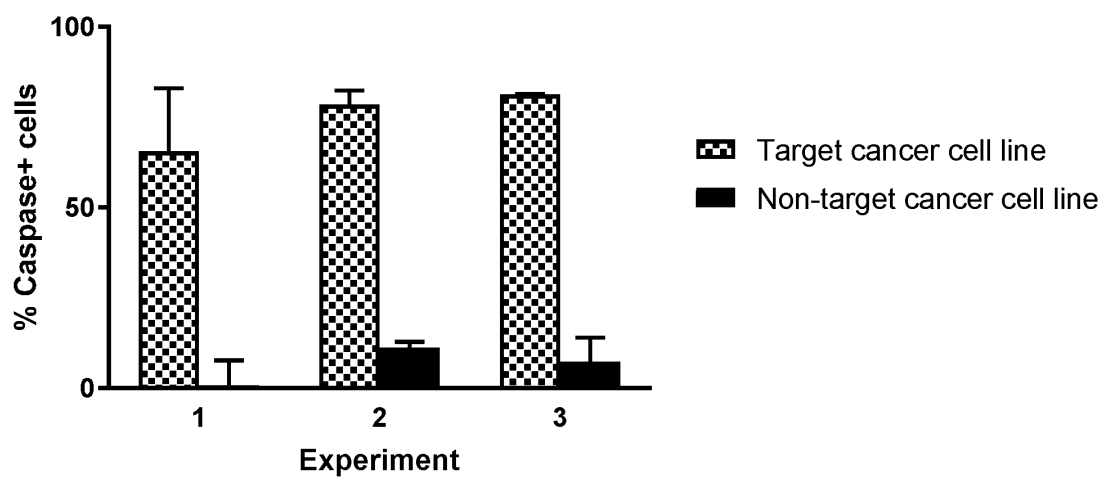
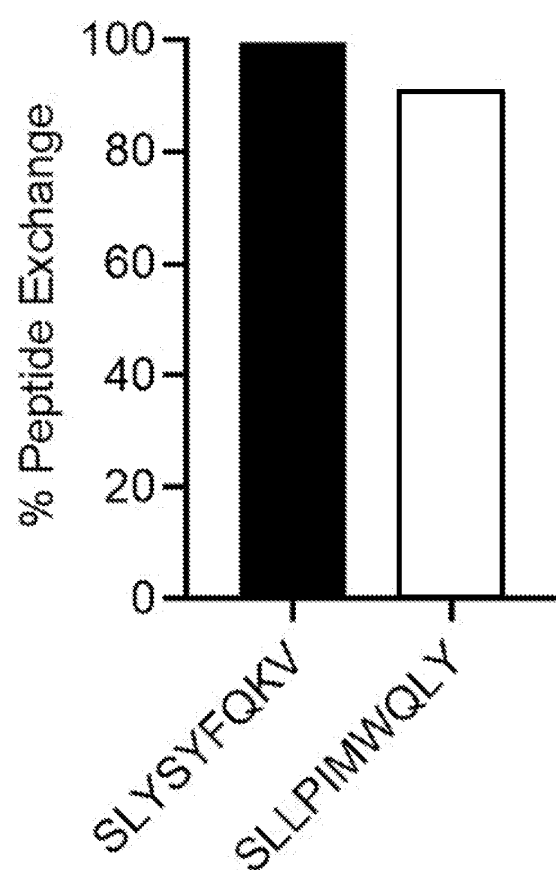
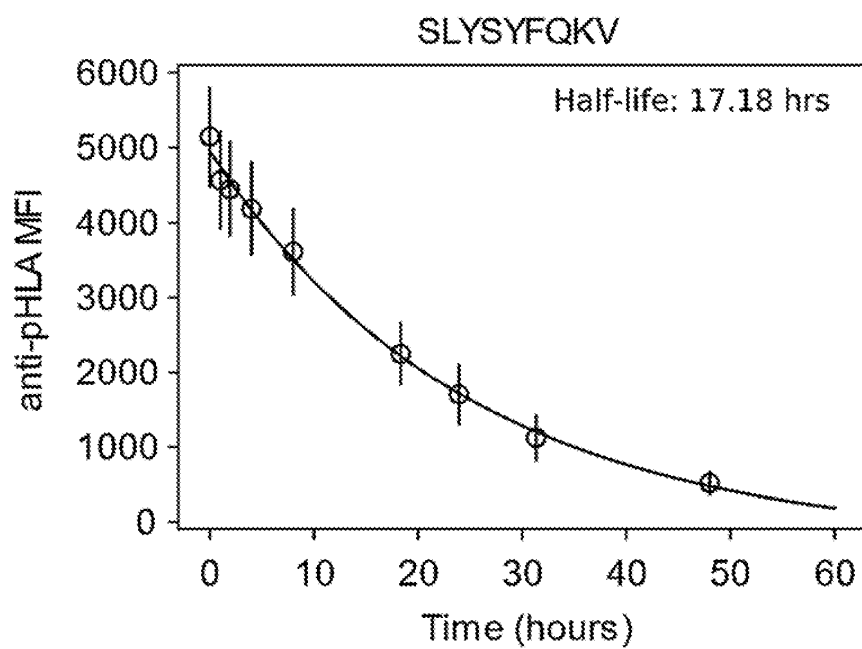
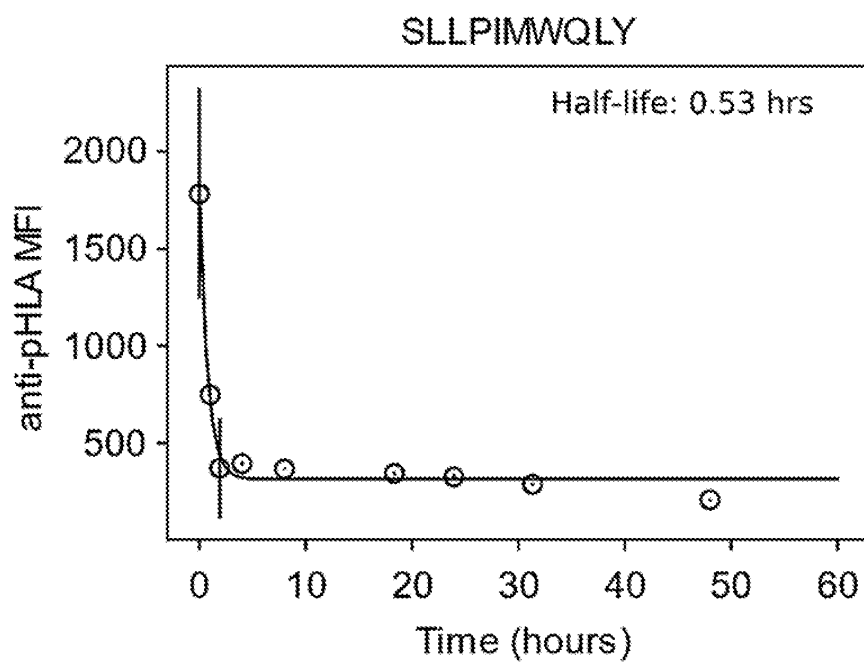


FIG. 23D

**FIG. 23E**

**FIG. 24**

**FIG. 25A****FIG. 25B**

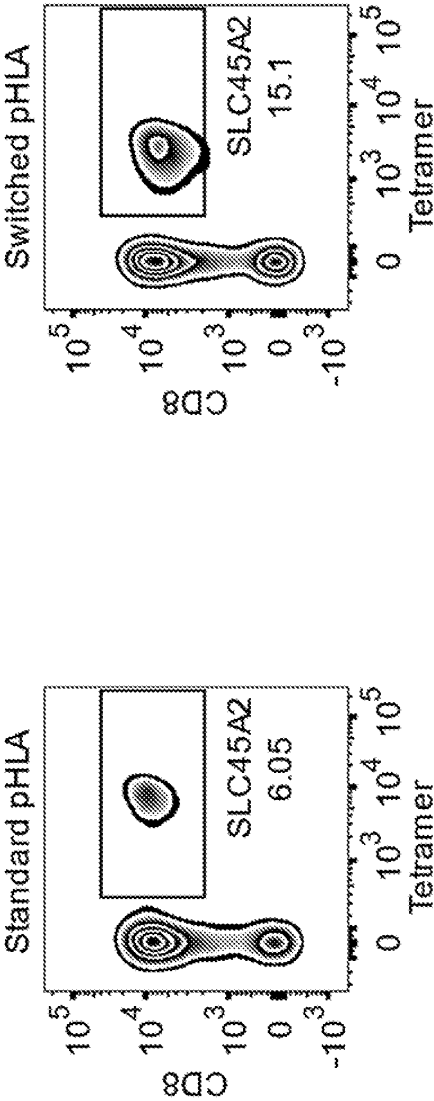


FIG. 26A

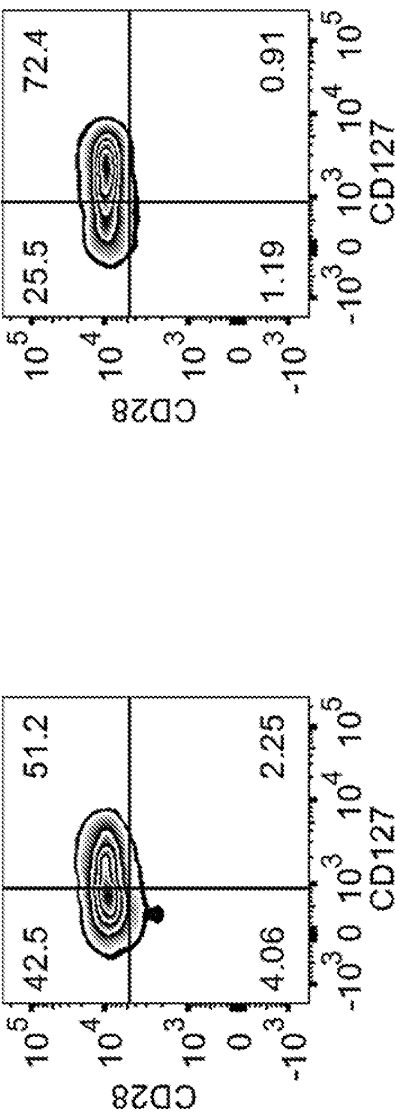


FIG. 26C

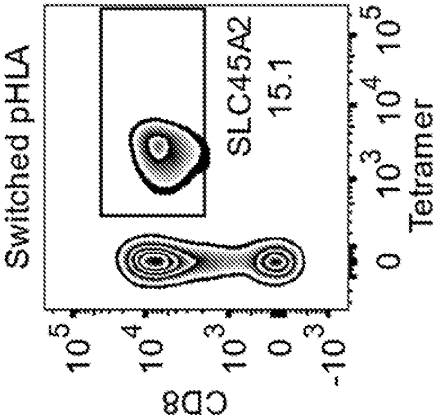


FIG. 26B

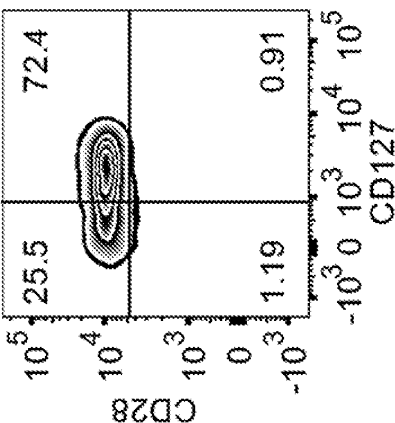
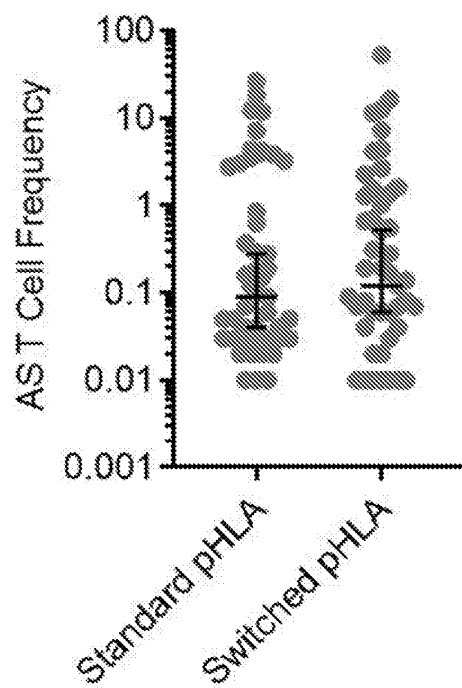
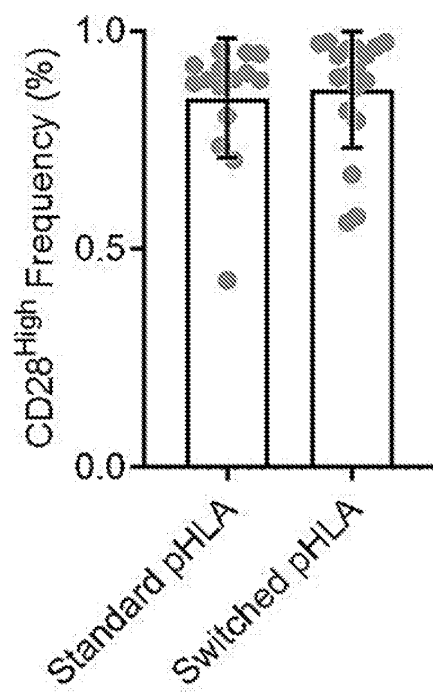
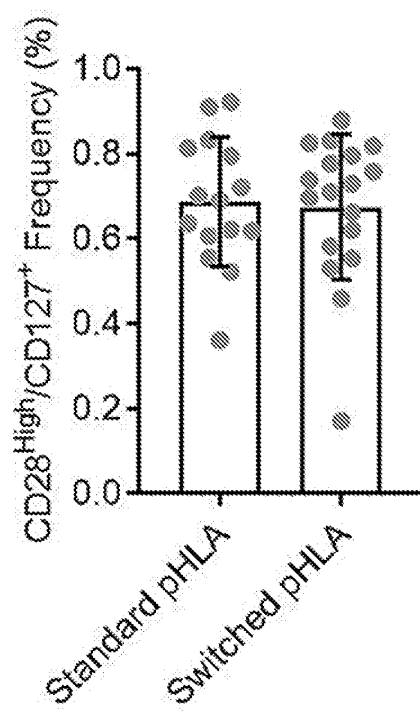


FIG. 26D

**FIG. 27A**

**FIG. 27B**

**FIG. 27C**