FIG. 1

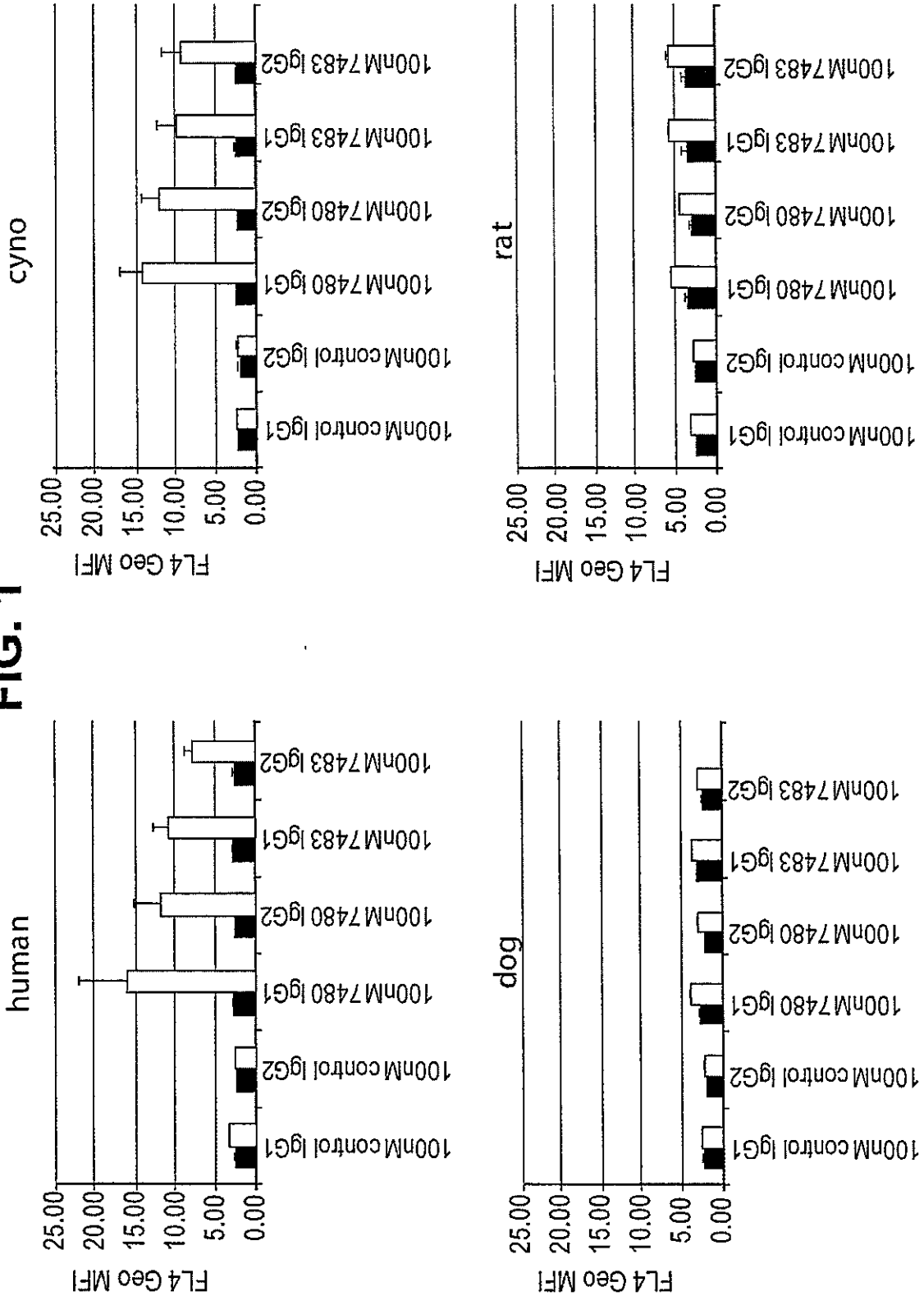

cyno
rat
human
dog
FL4 Geo MFI
25.00
20.00
15.00
10.00
5.00
0.00
100nM control IgG1
100nM control IgG2
100nM 7480 IgG1
100nM 7480 IgG2
100nM 7483 IgG1
100nM 7483 IgG2

FIG. 2

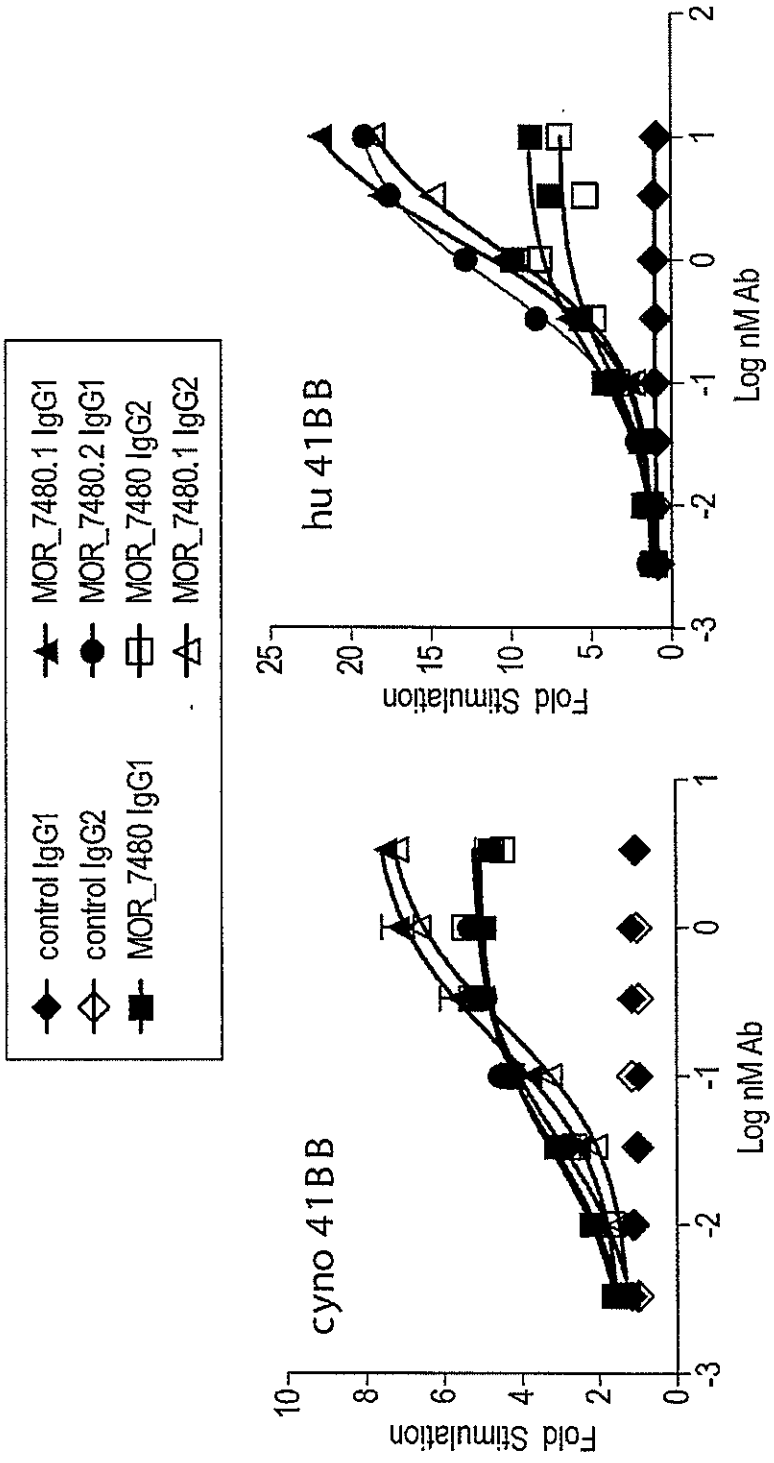

control IgG1
control IgG2
MOR_7480 IgG1
MOR_7480.1 IgG1
MOR_7480.2 IgG1
MOR_7480 IgG2
MOR_7480.1 IgG2
cyno 41BB
hu 41BB
Fold Stimulation
Log nM Ab

FIG. 3B

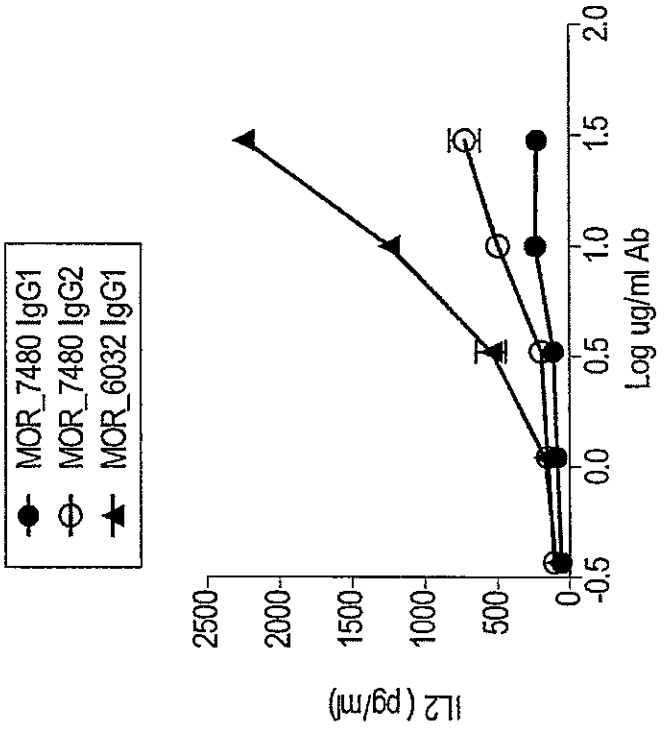

MOR_7480 IgG1
MOR_7480 IgG2
MOR_6032 IgG1
IL2 (pg/ml)
2500
2000
1500
1000
500
0
-0.5
0.0
0.5
1.0
1.5
2.0
Log ug/ml Ab

FIG. 3A

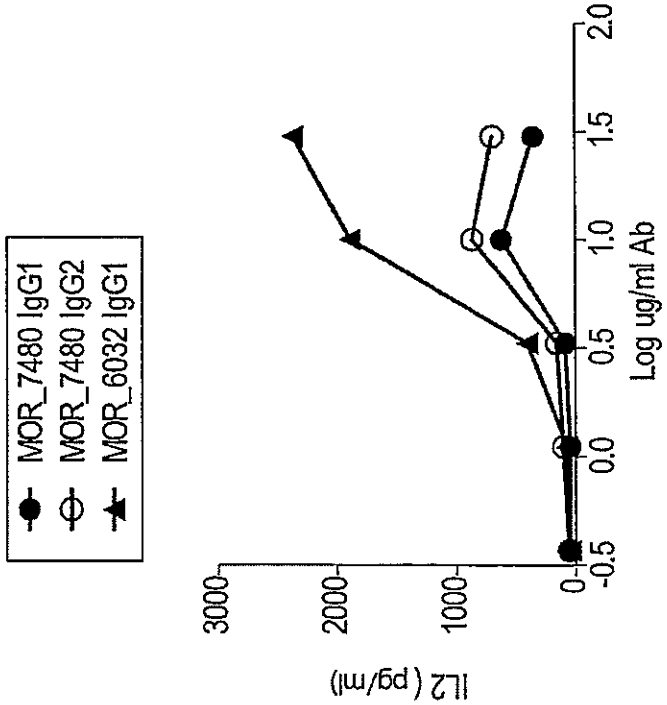

MOR_7480 IgG1
MOR_7480 IgG2
MOR_6032 IgG1
IL2 (pg/ml)
3000
2000
1000
0
-0.5
0.0
0.5
1.0
1.5
2.0
Log ug/ml Ab

FIG. 4

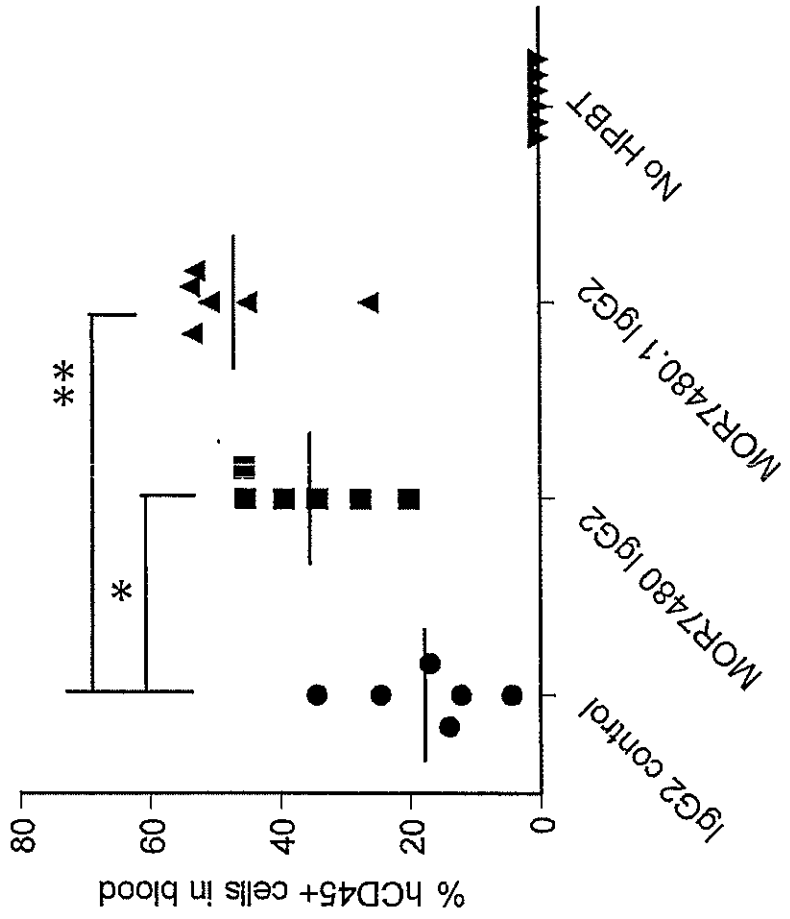

% hCD45+ cells in blood
0
20
40
60
80
*
**
IgG2 control
MOR7480 IgG2
MOR7480.1 IgG2
No HPBT

FIG. 5

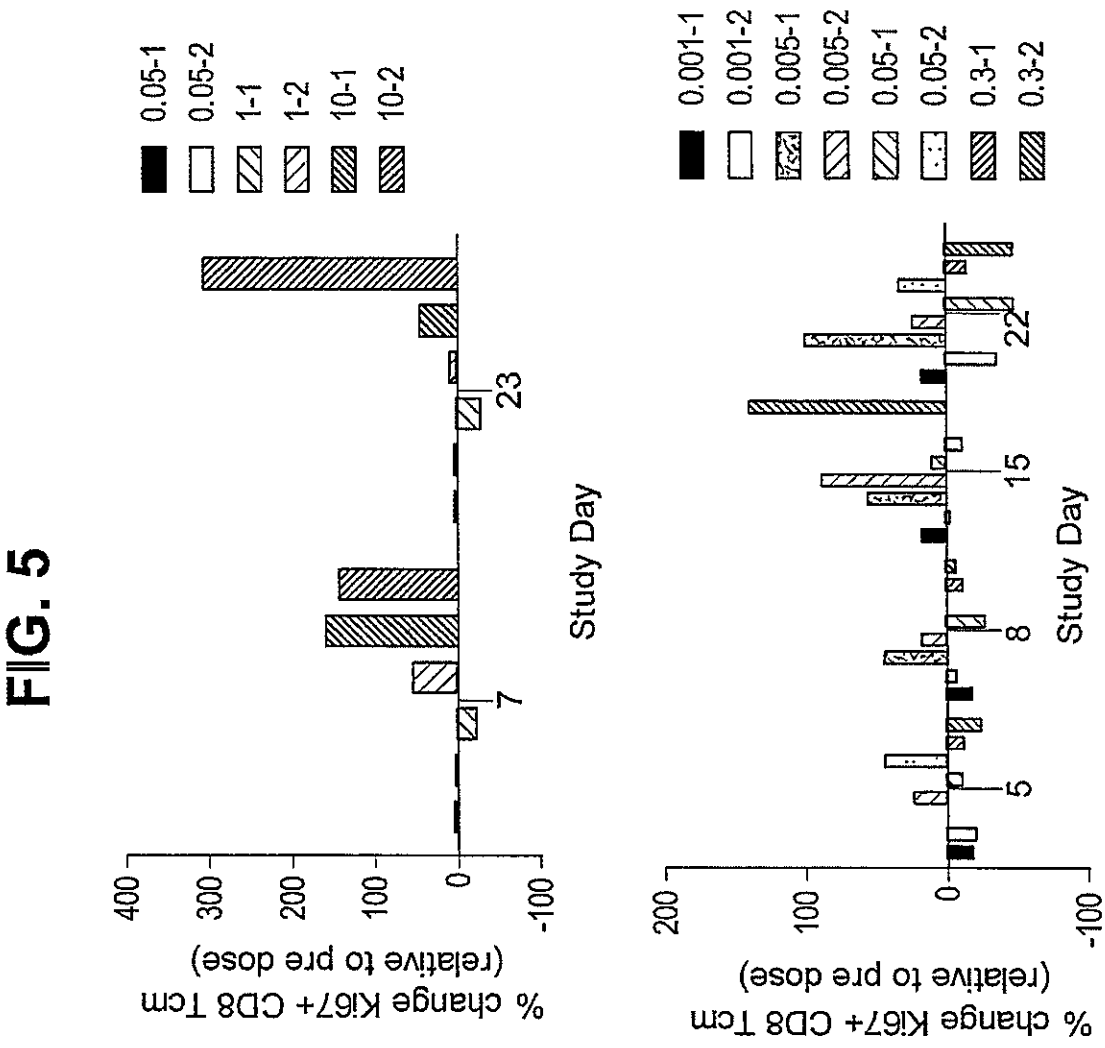

0.001-1
0.001-2
0.005-1
0.005-2
0.05-1
0.05-2
0.3-1
0.3-2
% change Ki67+ CD8 Tcm
(relative to pre dose)
200
100
0
-100
5
8
15
22
Study Day
0.05-1
0.05-2
1-1
1-2
10-1
10-2
% change Ki67+ CD8 Tcm
(relative to pre dose)
400
300
200
100
0
-100
7
23
Study Day

FIG. 6

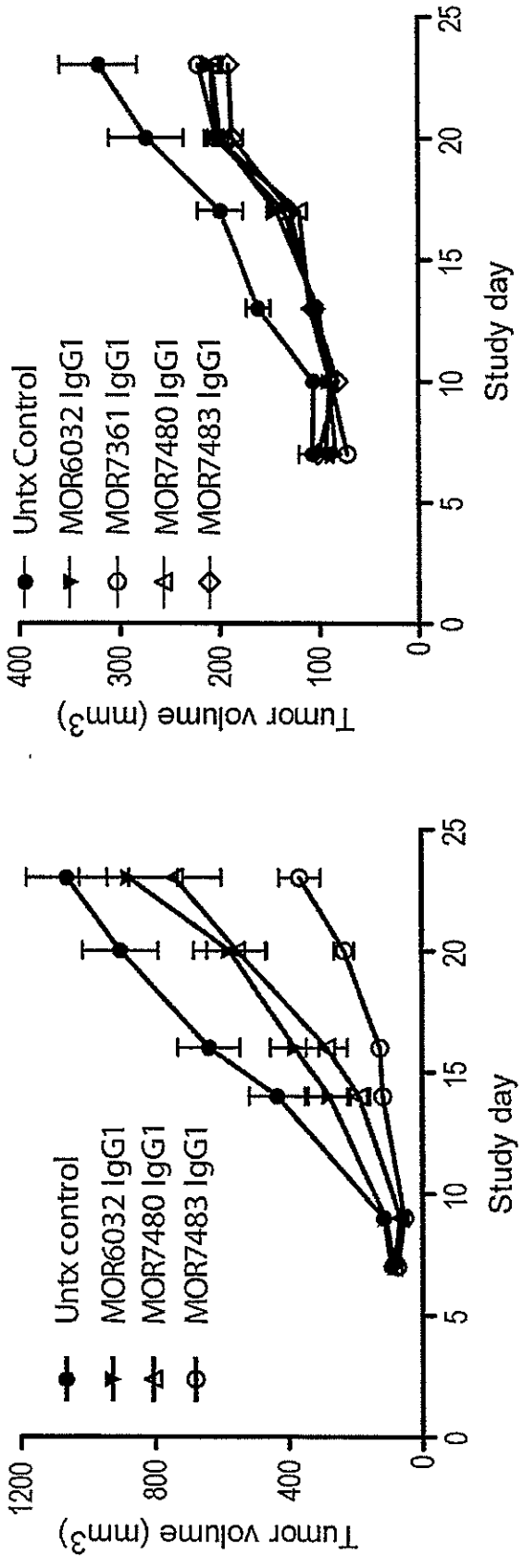
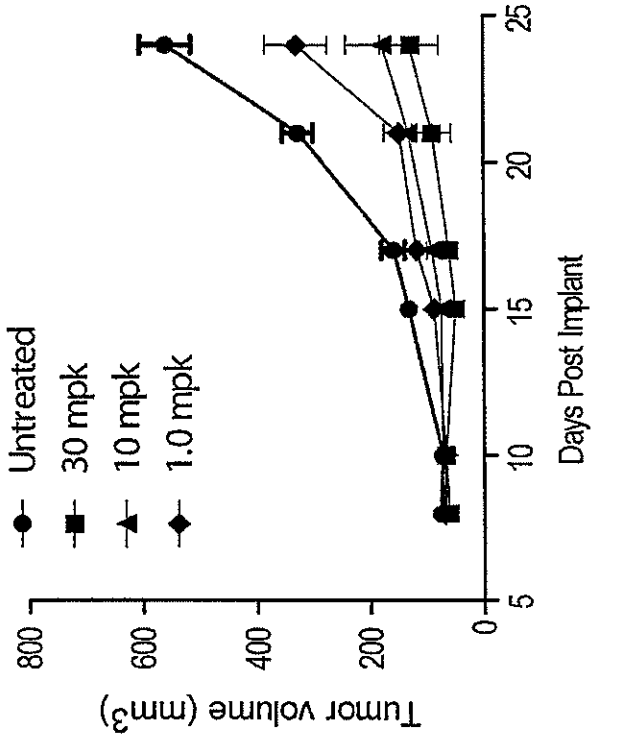

Tumor volume (mm3)
1200
800
400
0
0
5
10
15
20
25
Study day
Untx control
MOR6032 IgG1
MOR7480 IgG1
MOR7483 IgG1
Tumor volume (mm3)
400
300
200
100
0
0
5
10
15
20
25
Study day
Untx Control
MOR6032 IgG1
MOR7361 IgG1
MOR7480 IgG1
MOR7483 IgG1

FIG. 7


Tumor volume (mm3)
800
600
400
200
0
5
10
15
20
25
Days Post Implant
Untreated
30 mpk
10 mpk
1.0 mpk

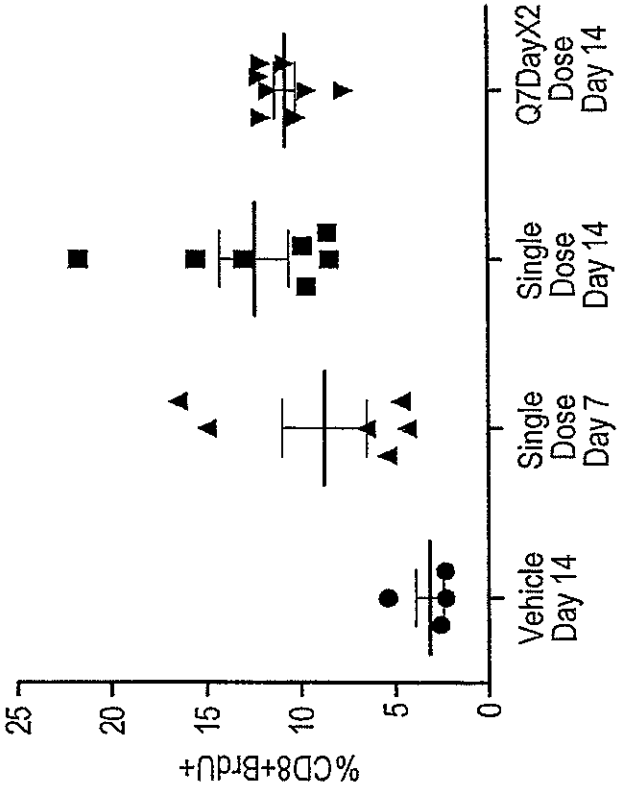

%CD8+BrdU+
25
20
15
10
5
0
Vehicle Day 14
Single Dose Day 7
Single Dose Day 14
Q7DayX2 Dose Day 14

FIG. 8

Heavy Chain variable region (CDRs are underlined)

```
GERMLINE VH1-69 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANYAQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARDYGGNSYFDYWGQGTLVTVSS
   MOR 6032 VH QVQLVQSGAEVKKPGSSVKVSCKASGGTFNSYAISWVRQAPGQGLEWMGGIIPGFGTANYAQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARKNEEDGGFDHWGQGTLVTVSS

GERMLINE VH3-23 EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSAISGSGGSTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKRILYWWCMLYYFDYWGQGTLVTVSS
   MOR 7361 VH QVQLVESGGGLVQPGGSLRLSCAASGFTFSDYYMHWVRQAPGKGLEWVSVISGSGSNTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAR--LY---AQFEGDFWGQGTLVTVSS

GERMLINE VH5 EVQLVQSGAEVKKPGESLRISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSDTRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARGYSYGYYFDYWGQGTLVTVSS
   MOR 7480 VH QVQLVQSGAEVKKPGESLKISCKGSGYSFSTYWISWVRQMPGKGLEWMGKIYPGDSYTNYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARG---YGIFDYWGQGTLVTVSS
  MOR7480.1 VH EVQLVQSGAEVKKPGESLRISCKGSGYSFSTYWISWVRQMPGKGLEWMGKIYPGDSYTNYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARG---YGIFDYWGQGTLVTVSS
  MOR7480.2 VH EVQLVQSGAEVKKPGESLRISCKGSGYSFSTYWISWVRQMPGKGLEWMGKIYPGDSYTNYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARG---YGIFDYWGQGTLVTVSS
   MOR 7483 VH QVQLVQSGAEVKKPGESLKISCKGSGYSFSTYWISWVRQMPGKGLEWMGKIYPGDSYTNYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARG---YGIFDYWGQGTLVTVSS
  MOR7483.1 VH EVQLVQSGAEVKKPGESLRISCKGSGYSFSTYWISWVRQMPGKGLEWMGKIYPGDSYTNYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARG---YGIFDYWGQGTLVTVSS
  MOR7483.2 VH EVQLVQSGAEVKKPGESLRISCKGSGYSFSTYWISWVRQMPGKGLEWMGKIYPGDSYTNYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARG---YGIFDYWGQGTLVTVSS
```

Light Chain variable region (CDRs are underlined)

```
GERMLINE VL3-r SYELTQPPSVSVSPGQTASITCSGDKLGDKYACWYQQKPGQSPVLVIYQDSKRPSGIPERFSGSNSGNTATLTISGTQAMDEADYYCQAWDSSTAV-VFGGGTKLTVL
   MOR 6032 VL DIELTQPPSVSVAPGQTARISCSGDNLGDYYASWYQQKPGQAPVLVIYDDSNRPSGIPERFSGSNSGNTATLTISGTQAEDEADYYCQTWDGT-LHFVFGGGTKLTVL
   MOR 7361 VL DIELTQPPSVSVAPGQTARISCSGDNIGSKYVSWYQQKPGQAPVLVIYSDSERPSGIPERFSGSNSGNTATLTISGTQAEDEADYYCQSWDGS-ISRVFGGGTKLTVL
   MOR 7480 VL DIELTQPPSVSVAPGQTARISCSGDNIGDQYAHWYQQKPGQAPVVVIYQDKNRPSGIPERFSGSNSGNTATLTISGTQAEDEADYYCATYTGFGSLAVFGGGTKLTVL
  MOR7480.1 VL SYELTQPPSVSVSPGQTASITCSGDNIGDQYAHWYQQKPGQSPVLVIYQDKNRPSGIPERFSGSNSGNTATLTISGTQAMDEADYYCATYTGFGSLAVFGGGTKLTVL
  MOR7480.2 VL SYELTQPPSVSVSPGQTASITCSGDNIGDQYAHWYQQKPGQSPVVVIYQDKNRPSGIPERFSGSNSGNTATLTISGTQAMDEADYYCATYTGFGSLAVFGGGTKLTVL
   MOR 7483 VL DIELTQPPSVSVAPGQTARISCSGDNIGDQYAHWYQQKPGQAPVVVIYQDKNRPSGIPERFSGSNSGNTATLTISGTQAEDEADYYCSTYTFVGFTTVFGGGTKLTVL
  MOR7483.1 VL SYELTQPPSVSVSPGQTASITCSGDNIGDQYAHWYQQKPGQSPVLVIYQDKNRPSGIPERFSGSNSGNTATLTISGTQAMDEADYYCSTYTFVGFTTVFGGGTKLTVL
  MOR7483.2 VL SYELTQPPSVSVSPGQTASITCSGDNIGDQYAHWYQQKPGQSPVVVIYQDKNRPSGIPERFSGSNSGNTATLTISGTQAMDEADYYCSTYTFVGFTTVFGGGTKLTVL
```