

FIG. 1

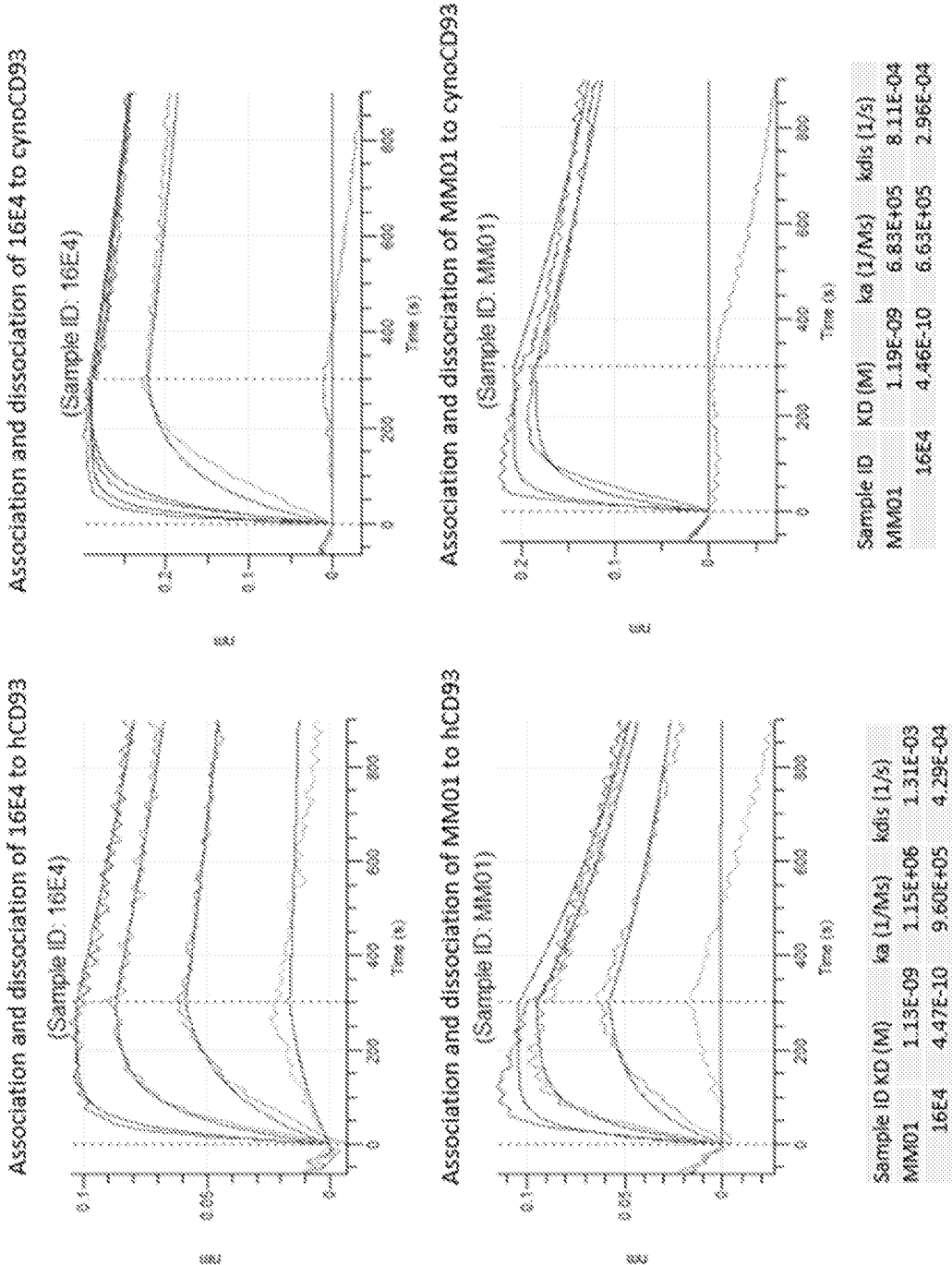


FIG. 2

Test 15 purified anti-CD93 mAbs binding to CD93 expressing CHO cells

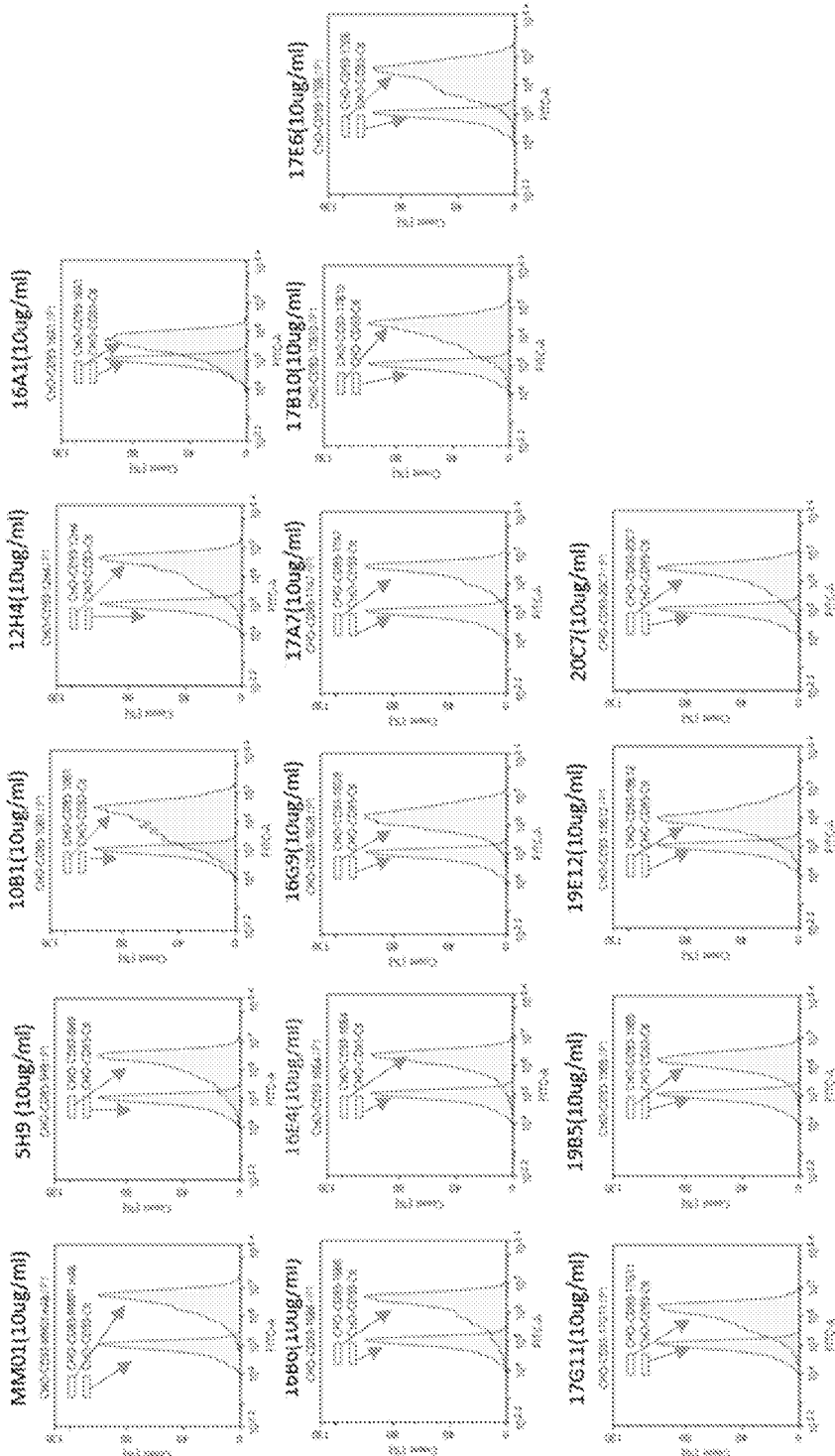


FIG. 3A

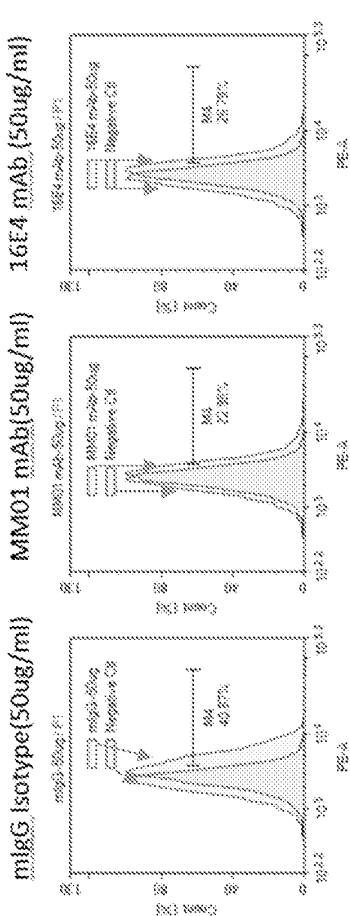


FIG. 3B

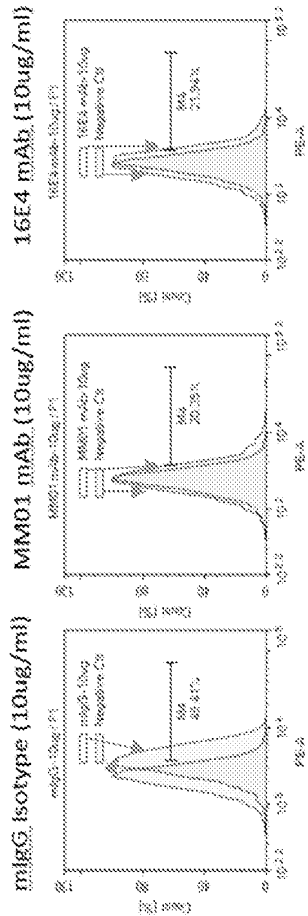


FIG. 3C

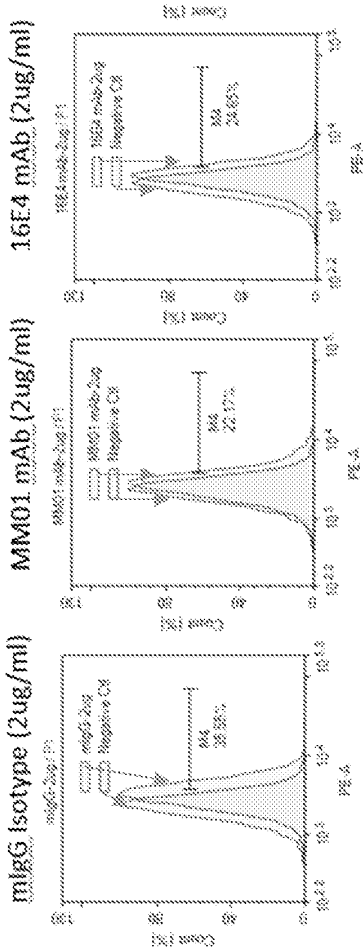


FIG. 3D

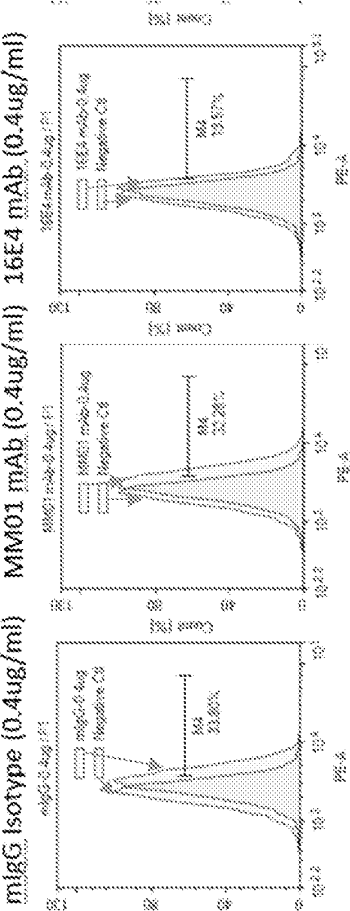


FIG. 4A

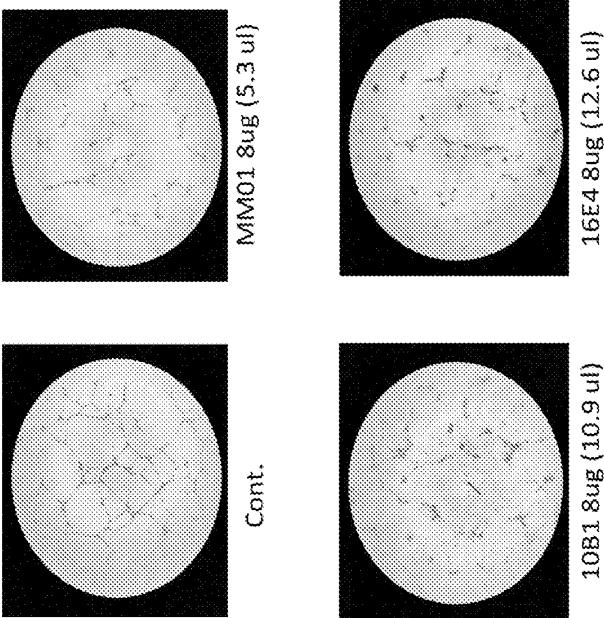


FIG. 4B

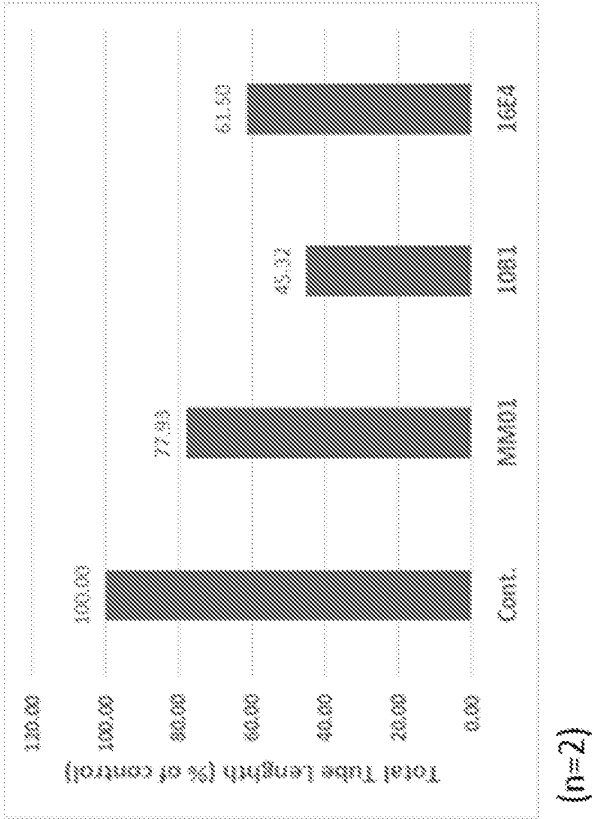


FIG. 4C

HUVEC (invitrogen; 2x10⁴cells/well) tube formation ~ 18h

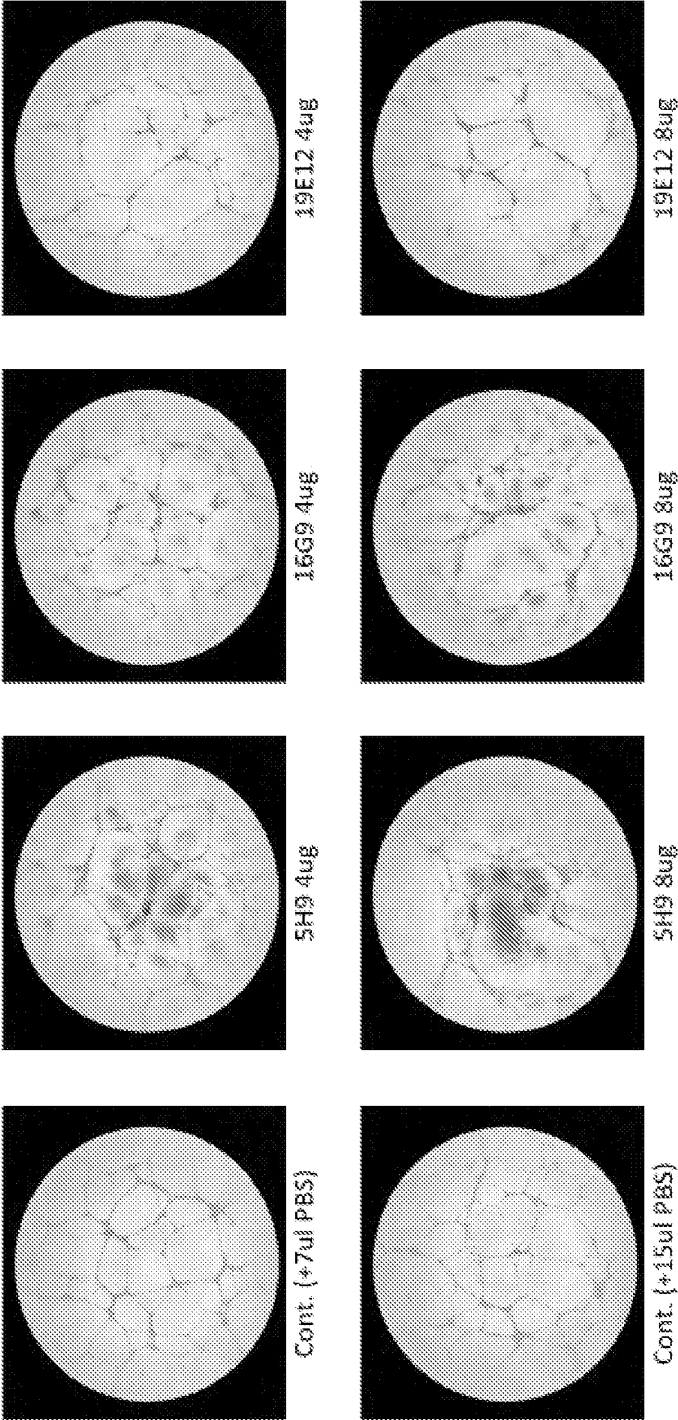


FIG. 4D

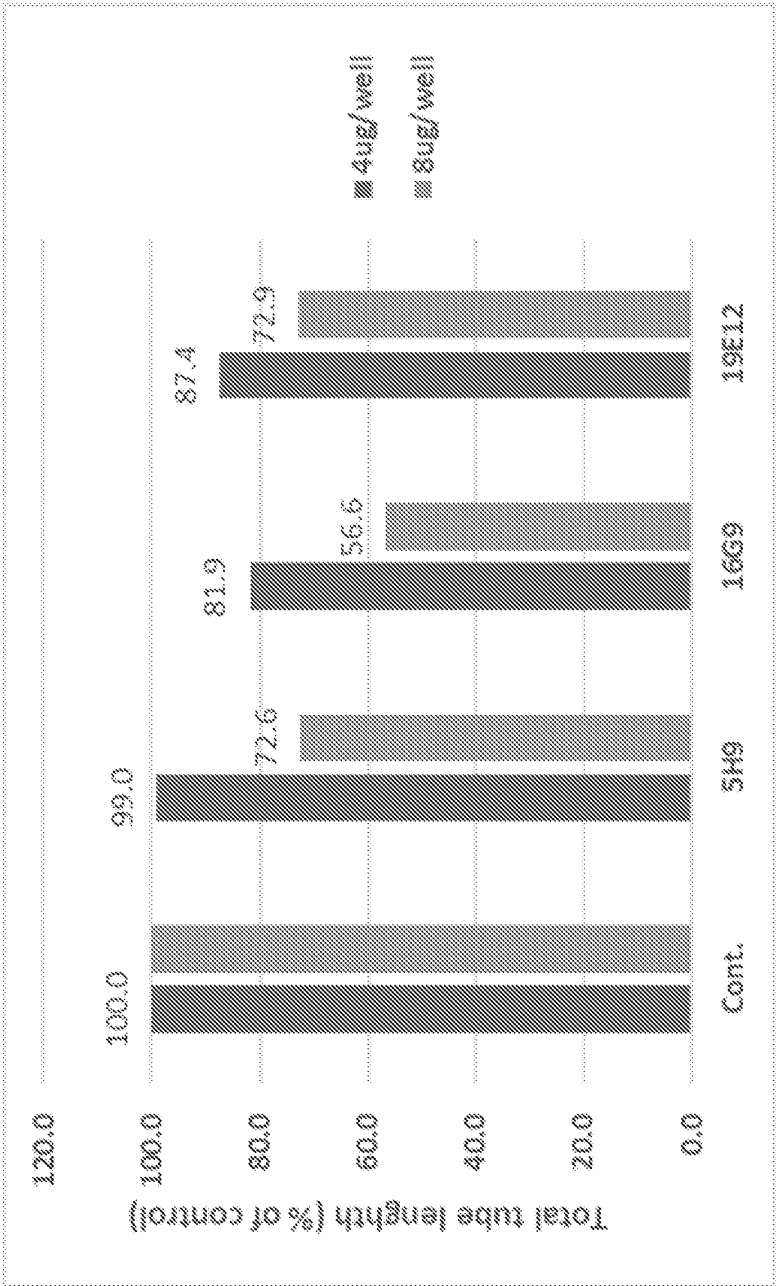


FIG. 4E HUVEC (invitrogen; 2x10⁴cells/well) tube formation – 18h

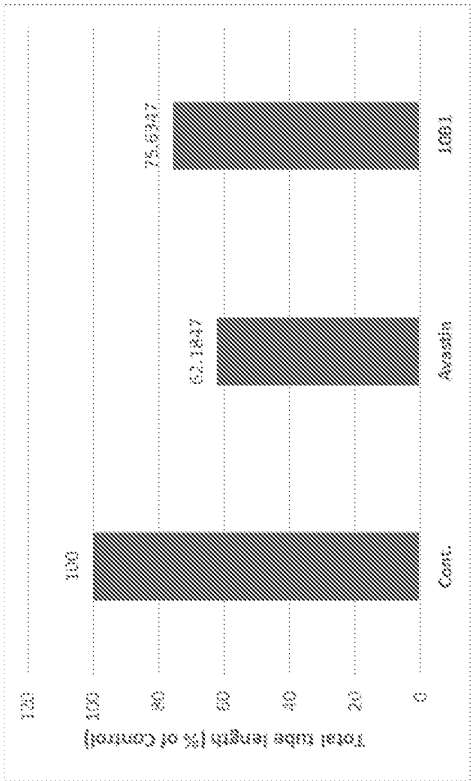


FIG. 4F

FIG. 5A

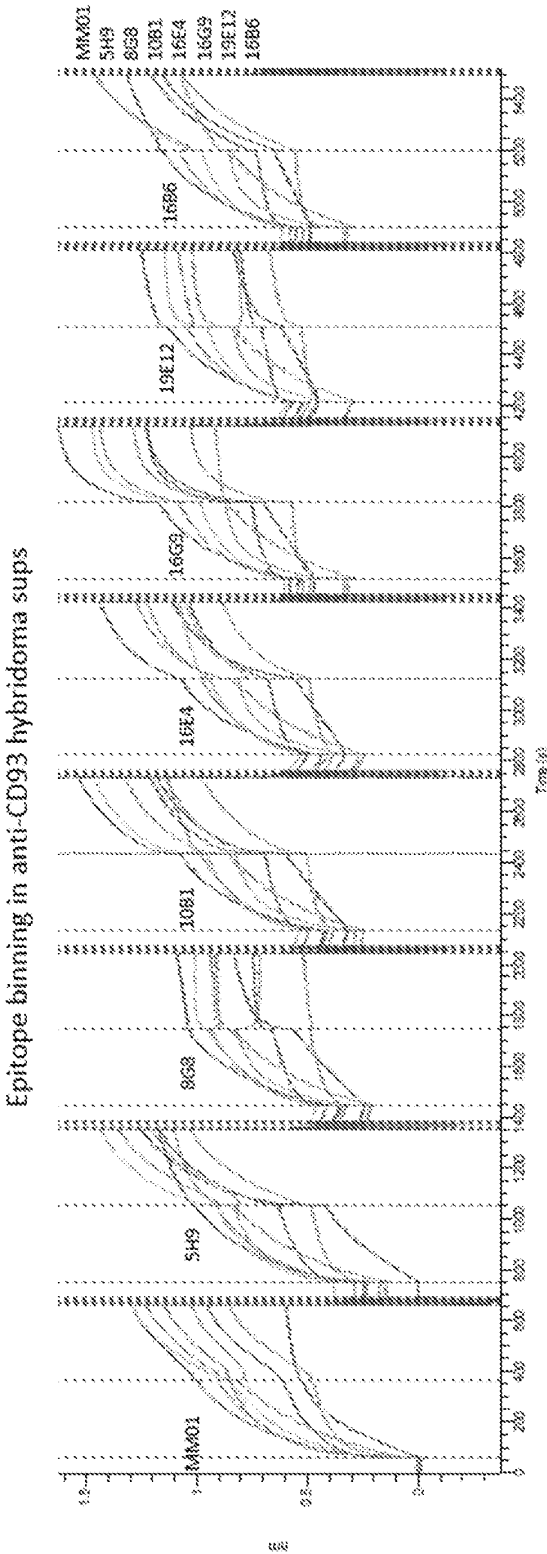


FIG. 5B

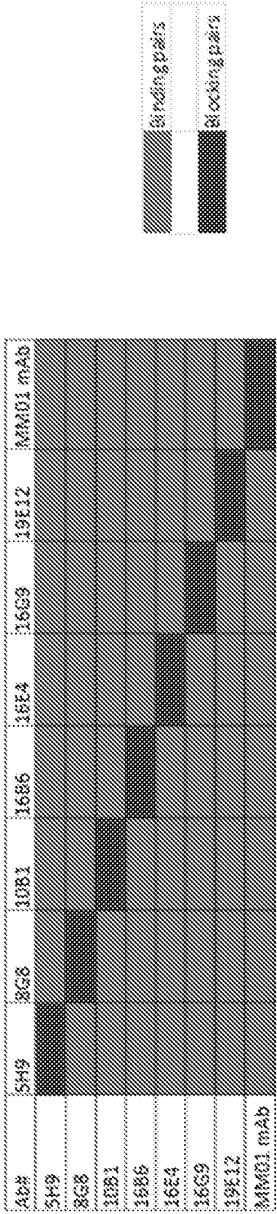


FIG. 6A

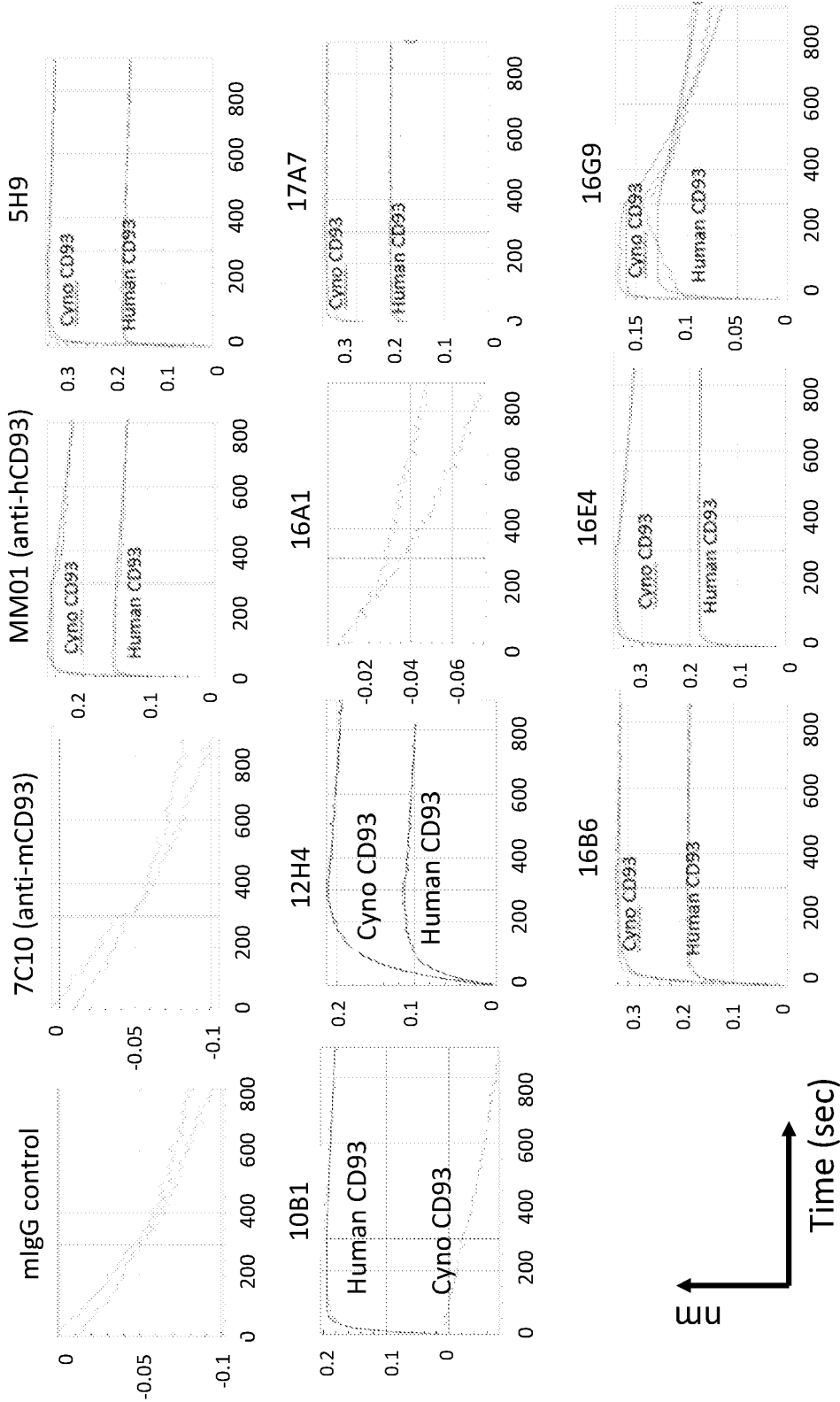


FIG. 6B

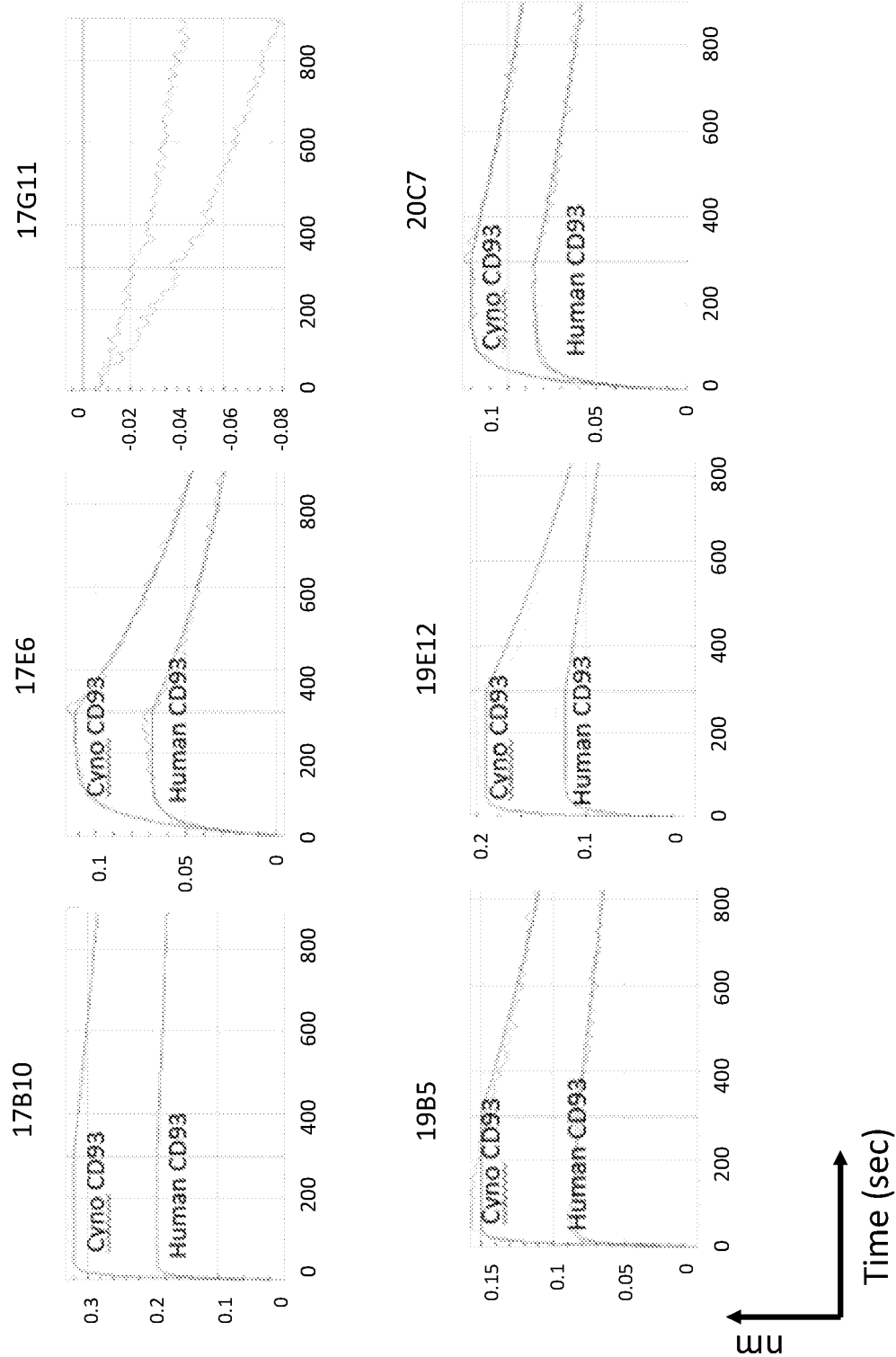


FIG. 7A

	CDRH1	CDRH2
10B1_VH	1 QVQLKQSGPGLVQPSSLSITCTVSDFSLSSTPGVNWVRQPPGKGLEWLGVIWSSG-GSTDY	
19B5_VH	1 DYNLVESSGGGLVELGGSIALSCAASGFTFSSNYTMSWVRQSPFKRLSEWVATISNNGDSTYY	
16G9_VH	1 EVQLQQSGPELVKPGASVKMSCKASGYTFTDYIMNWVKQSHGKSLEWIGRVNENNGGKTY	
16A1_VH	1 QVQLQSSDAELVKPGTSVKISCKASGYTFTDHGIIHWVKQKPERGLEWIGNISPCNGDIKY	
20C7_VH	1 EVQLQQSGPELVNPGASVKMSCKASGYTFTAYVMHWVKQKPGQGLEWIGYIFPYNDGTEY	
17E6_VH	1 EVQLQQSGPELVKPGASVKMSCKASGYTFTSYVINHWVKQKPGQGLEWIGYINPYSDYTQY	
16E4_VH	1 QVQLQQPGAEELVKPGASVHLSCKASGYTFTSYWMHWVKQRPQGQGLEWIGCIDPSASYTTY	
12H4_VH	1 EVQLQQSGPELVKPGASVKVSKASGYTFTDYYIHWVKQKPGQGLEWIGEIFYPSDDAYY	
5H9_VH	1 QVQLQQSGPELVKPGASVKISCKASGYAFSTYWMHWVKQRPQKGLEWIGRIFFPGDGHANY	
17A7_VH	1 QVQLQQSGPELVKPGASVKISCKGSGYAFSTYWMHWVKQKPGKLEWIGRIFFPGDGDYDY	
16B6_VH	1 QVQLQQSGPELVKPGASVKISCKASGYAFSRSMHWVKQKPGKLEWIGRIFFPGDGDYNY	
17B10_VH	1 QVQLQQSGPELVKPGASVKISCKASGYAFSSYWLHWVKQKPGKLEWFGRIYFGDGDYDY	
19E12_VH	1 QVQLQQSGAEELVKPGASVHLSCKASGYTFTDYEMHWVRQTPVHGLEWIGGIDPETGGTAY	
17G11_VH	1 EVQLQQSGTVLARPGASVKMSCKASGYTFTSYWMHWVKQKPGQGLEWIGAIYFQNSDTSY	
	CDRH3	
10B1_VH	60 NVAFISRLSISKDSSKQVFEKMNQLQADUTAIYYCARNWRYDGYFYAMDYWGQGTSTVTV	
19B5_VH	61 LDTVKGRTTISRDSAEENTLYLQMSSLSLEUTAVYYCTRVGT-----GFTYWGQGTILVTV	
16G9_VH	61 NQKFKGKATLTVDKSLSTAYMQLNSLTSEDSAVYYCARWRIRF-VDYGMQDYWGQGTSTVTV	
16A1_VH	61 NEKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCTT-----YFVDWGRSTLTVTV	
20C7_VH	61 NEKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYYCARRTDGN-P-YTMDYWGQGTSTVTV	
17E6_VH	61 NEKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYSCARRADGN-P-YAMDYWGQGTSTVTV	
16E4_VH	61 NQKFKGKATLTVDKSSSTAYMQLNSLTSEDSAVYYCARSV-YY-GNKYFVWAGAGTITVTV	
12H4_VH	60 NEKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCTRETTA-----TAYWGQGTILVTV	
5H9_VH	61 NGKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCTRTGAAY-DFDPPPYWGQGTILVTV	
17A7_VH	61 DGKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCARTGAAY-EFDPPPYWGQGTILVTV	
16B6_VH	61 NGKFKGKATLTADKSSSTAYMQLNSLTSEDSAAAYFCARSA-TL-PYWYFVWAGAGTITVTV	
17B10_VH	61 NGKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCVRGD----GYWAMDYWGQGTSTVTV	
19E12_VH	61 NQKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYYCTRG-----AWFAYWGQGTILVTV	
17G11_VH	61 NQKFKGKATLTAVTSASTAYMQLNSLTSEDSAVYYCTEGGPDY-SNYWFAYWGQGTILVTV	
10B1_VH	120 SS	
19B5_VH	115 SA	
16G9_VH	120 SS	
16A1_VH	112 SA	
20C7_VH	119 SS	
17E6_VH	119 SS	
16E4_VH	119 SS	
12H4_VH	114 SA	
5H9_VH	120 SA	
17A7_VH	120 SA	
16B6_VH	119 SS	
17B10_VH	117 SS	
19E12_VH	114 SA	
17G11_VH	120 SA	

FIG. 7B

	CDRL1	CDRL2
19E12_VL	1 QAVVTQ-ESALTTSPGETVTLTCSRSGTGAVTTS---NSANWVQEKPDHLEPTGLIGGTNHR	
19B5_VL	1 DIVLTQSPATLSVTPGDSDVSLSCRASQSI-----NNYLHWYQQRSHESPRLLIKFASQS	
5H9_VL	1 DIVMTQAAAFSNPVTLTGTSASISCSSSKSLHLSN-GVTYLYWYLQRPQGSPQLLIYRMSNL	
17A7_VL	1 DIVMTQAAAFSNPVTLTGTSASISCSSTKSLHLSN-GITYLYWYLQRPQGSPQLLIYRMSNL	
17B10_VL	1 DIVMTQAAAFSNPVTLTGTSASISCRFEKSLHLSN-GITYLYWYLQKPGQSPQLLIYQMSHL	
16A1_VL	1 DIVMTQSPSSLAMSIGQEVIMSCKSSSLLNSHNQKNCCLAWYQOKPGQSPRLLIYFACTR	
17G11_VL	1 SEVMTQTTFKFLVLSAGDRVITITCKASQSV-----SNDVAVYQOKPGQSPKLLIYASNR	
10B1_VL	1 DIVMTQSQKFMSTSTGDRVSVTCKASQNV-----GTNVAVYQOKPGQSPKALIYSASYR	
20C7_VL	1 DIVMTQSHKFMSTSVGDRVSI TCKASQDV-----STAVAVYQOKPGQSPKLLIHSASYR	
17E6_VL	1 DIVMTQSHKFMSTSVGDRVSVTCKASQDV-----STAVVWYQOKPGQSPKLLIYSASYR	
16B6_VL	1 DIKMTQSPSSMYASLGERTITCKASQDIK-----SYLSWYQOKPWKSPKTLIYYATNL	
12H4_VL	1 QIVLTQSPAIMSASPGEKVTITCSASSSV-----SLIYWYQOKPGTSPKLIWYSTNL	
16E4_VL	1 DIVLTQSPASLAVSLQQRATISCKASQSVDYAG--DSYMNWYQOKPGQPPKLLIYAASNL	
16G9_VL	1 DIVLTQSPASLAVSLQQRATISCRASQSVSTSS--YSYMHWYQOKPGQPPKLLIKYASNL	

	CDRL3
19E12_VL	57 AFGVFARFSGSLIGDKAALTITGAQTEDEAIYFCALWYNNHFVPGGCTKLTVL
19B5_VL	59 ISDIPSRFSGSGSGTDFTLINSIETEDFGMYFCQSQNSWPLTFGAGTKLELK
5H9_VL	60 ASGVPDFRFGSGSGSGTDFTLRISEVEAEDVGVIYCAQMLERPFTFGSGTKLEIK
17A7_VL	60 ASGVPDFRFGSGSGSGTDFTLRISEVEAEDVGVIYCAQMLERPFTFGSGTKLEIK
17B10_VL	60 ASGVPDFRFGSGSGSGTDFTLRISEVEAEDVGVIYCAQNLLELPWTFGGCTKLEIK
16A1_VL	61 ESGVPDFRFGSGSGSGTDFTLTISVQAEDLAVYFCQQHCNTLTFGAGTKLELK
17G11_VL	59 YTGVPDRFTGSGSGTDFTFITSTVQAEDLAVYFCQQDYS-SYTFGGGCTKLEIK
10B1_VL	55 FIGVPDFRFTGSGSGTDFTLTITNVQSEDLAEYFCQQYNRNPITFGSGTKLEIK
20C7_VL	55 YTGVPDRFTGSGSGTDFTFITSSVQAEDLAVYFCQQHYSTPFTFGSGTKLEIK
17E6_VL	55 YTGVPDRFTGSGSGTDFTFITSVQAEDLAVYFCQQHYSTPFTFGSGTKLEIK
16B6_VL	55 ADGVFSRFGSGSGSQYSLTISLGSDDTATYYCLQHVESFWTFGGGCTKLEIK
12H4_VL	54 ASGVPARFSGSGSGTSYSLTISRMEAEDAATYYCQQRSGYPTFGGCTKLEIK
16E4_VL	59 ESGIPARFSGSGSGTDFTLNIHPVEEEDAATYYCQQTNEDEPRTFGGCTKLEIK
16G9_VL	59 ESGVPARFSGSGSGTDFTLNIHPVEEEDAATYYCQHSWEIPFTFGSGTKLEIK

FIG. 8A

	CDRH1	CDRH2
10B1_VH	1 QVQLKQSGGPGLVQPSSQSLITCTVSDPSLSSFGVNWVRQPPGKGLEWLGVIWSSG-GSTDY	
19B5_VH	1 DVNLVESGGGLVKLGSSLLKLSCAASGFTFSNYMSWVRQSPKRLWVATISNNGDSTYY	
16G9_VH	1 EVQLQQSGPELVKPGASVKMSCKASGYTFTDYIMNWVKQSHGKSLWIGRVNFMNGGKTY	
16A1_VH	1 QVQLQQSDAELVKPGTISVKISCKASGYTFTDTHGIHWVKQRPERGLEWIGNISPGNSDIKY	
20C7_VH	1 EVQLQQSGPELVNPGASVMSCKASGYTFTAYVMHWVKQKPGQGLEWIGYIFPYNDGTEY	
17E6_VH	1 EVQLQQSGPELVKPGASVKMSCKASGYTFTSYVINHWVKQKPGQGLEWIGYINIFYSDYTQY	
16E4_VH	1 QVQLQQPGAEELVKPGASVKLSCKASGYTFTSYWMHWVKQKPGQGLEWIGEIDPSASYTTY	
12H4_VH	1 EVQLQQSGPELVKPGASVKVSKASGYTFTDYYIHWVKQKPGQGLEWIGEIYPSGSDAYY	
5H9_VH	1 QVQLQQSGPDLVKPGASVKISCKASGYAFSTYWMNWVKQKPGKGLEWIGRIFFGDSGANY	
17A7_VH	1 QVQLQQSGPELVKPGASVKISCKGSGYAFSTYWMNWVKQKPGKGLEWIGRIFFGDSGTDY	
16B6_VH	1 QVQLQQSGPELVKPGASVKISCKASGYAFSRKSWMNWVKQKPGKGLEWIGWTYFPGSDTNY	
17B10_VH	1 QVQLQQSGPELVKPGASVKISCKASGYAFSSYWLNWVKQKPGKGLEWIGRIYFPGSDTDY	
19E12_VH	1 QVQLQQSGAEELVRPGASVKLSCKASGYTFTDIEMHWVKQTPVHGLEWIGGIDPETGGTAY	
17G11_VH	1 EVQLQQSGTVLARPGASVMSCKASGYTFTSYWMHWVKQKPGQGLEWIGATYPCNSDTSY	
	CDRH3	
10B1_VH	60 EVAFISRLSISKDNKSKQVFFKMNNLQADDTAIYYCAKNWRYDGYFYAMDYWCQGTISVTV	
19B5_VH	61 LDTVKGRFTISRDSSENTLYLQMSLLISESTAVYYCTEVGT-----GFTYWCQGTILVTV	
16G9_VH	61 NQKFKGKATLTVDKSLSTAYMQLNSLTSEDSAVYYCAEWRLRP-VDYGMQDYWCQGTISVTV	
16A1_VH	61 NEKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCTT-----YFVDWGRGTLVTV	
20C7_VH	61 NEKFKGKATLTSDKSSSTAYMQLNSLTSEDSAVYYCAHRTDGN-P-YTMDYWCQGTISVTV	
17E6_VH	61 NEKFKGKATLTSDKSSSTAYMQLNSLTSEDSAVYSCARRADGN-P-YAMDYWCQGTISVTV	
16E4_VH	61 NQKFKGKATLTVDKSSSTAYMQLNSLTSEDSAVYYCAREV-YY-GNKYFDVWAGAGTITVTV	
12H4_VH	60 NEKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCTTETTA-----TAYWCQGTILVTV	
5H9_VH	61 NGKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCTETGAAY-DEDFEPYWCQGTILVTV	
17A7_VH	61 DGRFKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCARTGAAY-EFDFEPYWCQGTILVTV	
16B6_VH	61 NGKFKGKATLTADKSSSTAYMQLNSLTSEDSAAVFCARSA-TL-PYWFYDVGAGTITVTV	
17B10_VH	61 NGKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCVPGD----GIWAMDYWCQGTISVTV	
19E12_VH	61 NQKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYYCTRG-----AWFAYWCQGTILVTV	
17G11_VH	61 NQKFKGKAKLTAVTASASTAYMQLNSLTSEDSAVYYCTRGGFYD-SNYWFAYWCQGTILVTV	
10B1_VH	120 SS	
19B5_VH	115 SA	
16G9_VH	120 SS	
16A1_VH	112 SA	
20C7_VH	119 SS	
17E6_VH	119 SS	
16E4_VH	119 SS	
12H4_VH	114 SA	
5H9_VH	120 SA	
17A7_VH	120 SA	
16B6_VH	119 SS	
17B10_VH	117 SS	
19E12_VH	114 SA	
17G11_VH	120 SA	

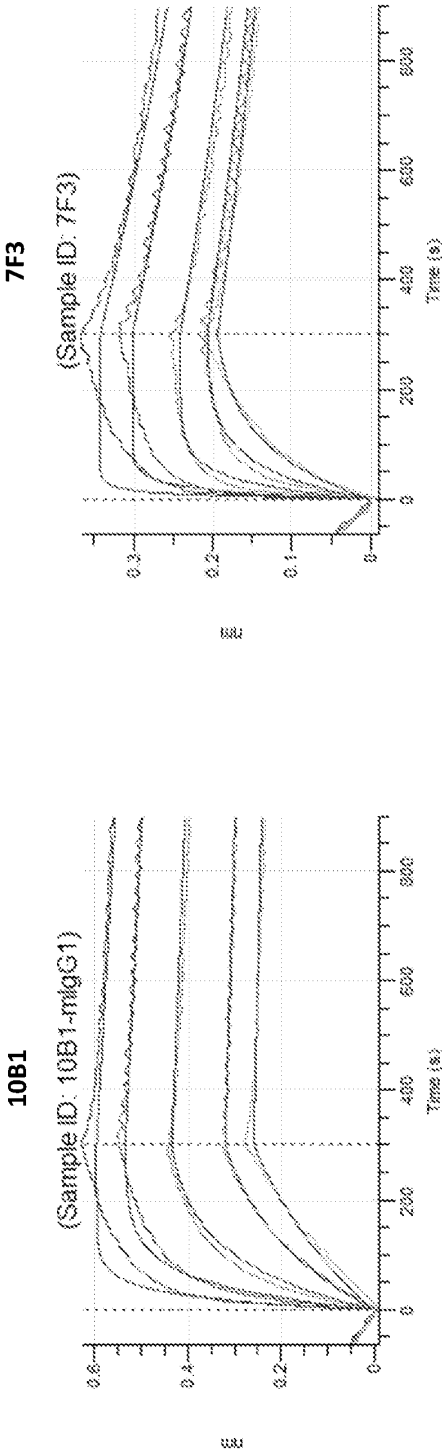
FIG. 8B

	CDRL1	CDRL2
19E12_VL	1 QAVVTQ-ESALTTSPGETVTLTCRSSTGAVTTS---NSANWVQENPDHFLTGLIGGTNNR	
19B5_VL	1 DIVLTQSPATLSVTPGDSVSLSCFASQSI-----NNYLHWYQQRSHESPRLLIKFASQS	
5H9_VL	1 DIVMTQAAFQNEVTLGTSASISCSSSKSLLSN-GVTYLYWYLQRPQGSPQLLIYRMSNL	
17A7_VL	1 DIVMTQAAFQNEVTLGTSASISCSSTKSLLSHSS-GITYLYWYLQRPQGSPQLLIYRMSNL	
17B10_VL	1 DIVMTQAAFQNEVTLGTSASISCFQSKSLLSN-GITYLYWYLQRPQGSPQLLIYQMSNL	
16A1_VL	1 DIVMTQSPSSSLAMSIGQSVTMSCRSSQSLNSNNQKNCLAWYQQKPGQSPRLLIYFACR	
17G11_VL	1 DIVMTQTPKELLVCAQDRVTITCKASQSV-----SNDVAVWYQKPGQSPKLLIYYASNR	
10B1_VL	1 DIVMTQSQKFMSTSTGDRVSVTCKASQNV-----GTNVAVWYQKPGQSPKALIYASAYR	
20C7_VL	1 DIVMTQSHKFMSTSVGDRVSVTCKASQDV-----STAVAVWYQKPGQSPKLLIHSAYR	
17E6_VL	1 DIVMTQSHKFMSTSVGDRVSVTCKASQDV-----STAVVWYQKPGQSPKLLIYSAYR	
16B6_VL	1 QIKMTQSPSCMYASLGERVTITCKASQDIK-----SYLSWYQKPGQSPKTLIYYATNL	
12H4_VL	1 QIVLTQSPAIMSASPGEKVTITCSASSSV-----SLIYWFQKPGQSPKLIWYSTSNL	
16E4_VL	1 DIVLTQSPASLAVSLGQRATISCRASQSVDYAG--DSYMNWYQKPGQSPKLLIYAASNL	
16G9_VL	1 DIVLTQSPASLAVSLGQRATISCRASQSVSTSS--YSYMHWYQKPGQSPKLLIKYASNL	

	CDRL3
19E12_VL	57 APGVFARFSGSGSLIGDKAALTITGAQTEDEAIYFCALWYNNHVFPGGCTKLTVL
19B5_VL	55 ISDIPSRFSGSGSGTDEFTLSINSIETEDFGMYFCQQSNSWPLTFGAGTKLELE
5H9_VL	60 ASGVPDFRFGSGSGSGTDEFTLRISRVEAEDVGIYYCAQMLERPTTFGSGTKLEIK
17A7_VL	60 ASGVPDFRFGSGSGSGTDEFTLRISRVEAEDVGVYYCAQMLERPTTFGSGTKLEIK
17B10_VL	60 ASGVPDFRFGSGSGSGTDEFTLRISRVEAEDVGVYYCAQMLERPTTFGSGTKLEIK
16A1_VL	61 ESGVPDFRFGSGSGSGTDEFTLISVQAEDLAVYYFCQQHCNTPLTFGAGTKLELE
17G11_VL	55 YTGVPDRFTGSGGYGTDEFTTISTVQAEDLAVYYFCQQDYS-SYTFGGSTKLEIK
10B1_VL	55 FIGVPDFRFTGSGSGTDEFTLTITNVQSEDLAEYFCQQYNRNPITFGSGTKLEIK
20C7_VL	55 YTGVPDRFTGRGSGTDEFTTISVQAEDLAVYYCQOHYSTPTTFGSGTKLEIK
17E6_VL	55 YTGVPDRFTGSGSGTDEFTTITSVQAEDLAVYYCQOHYSTPTTFGSGTKLEIK
16B6_VL	55 ADGVPSRFSGSGSGQDYSLTISLGSDDTATYYCLOHVESFWTFGGSTKLEIK
12H4_VL	54 ASGVFARFSGSGSGTYSYSLTISRMEAEDAATYYCQQRSGYPPTFGGCTKLEIK
16E4_VL	59 ESGIFARFSGSGSGTDEFTLNHPVEREDDAATYYCQQTNEDEPTTFGGSTKLEIK
16G9_VL	59 ESGVPAFSGSGSGTDEFTLNHPVEREDDAATYYCQHSWEIYPTTFGSGTKLEIK

FIG. 9

Test the binding affinity of anti-CD93 mAbs by Octet



Sample IDc	KD (M)	ka (1/Ms)	kdis (1/s)	Rmax	kobs (1/s)
10B1-mIgG1	9.04E-10	1.28E+05	1.16E-04	0.598	4.27E-02
7F3	1.26E-09	3.81E+05	4.78E-04	0.3437	1.27E-01

Anti-Penta-HIS(HIS1K) biosensor

FIG. 10

Test the new anti-CD93 mAb binding to human CD93 expressing cells

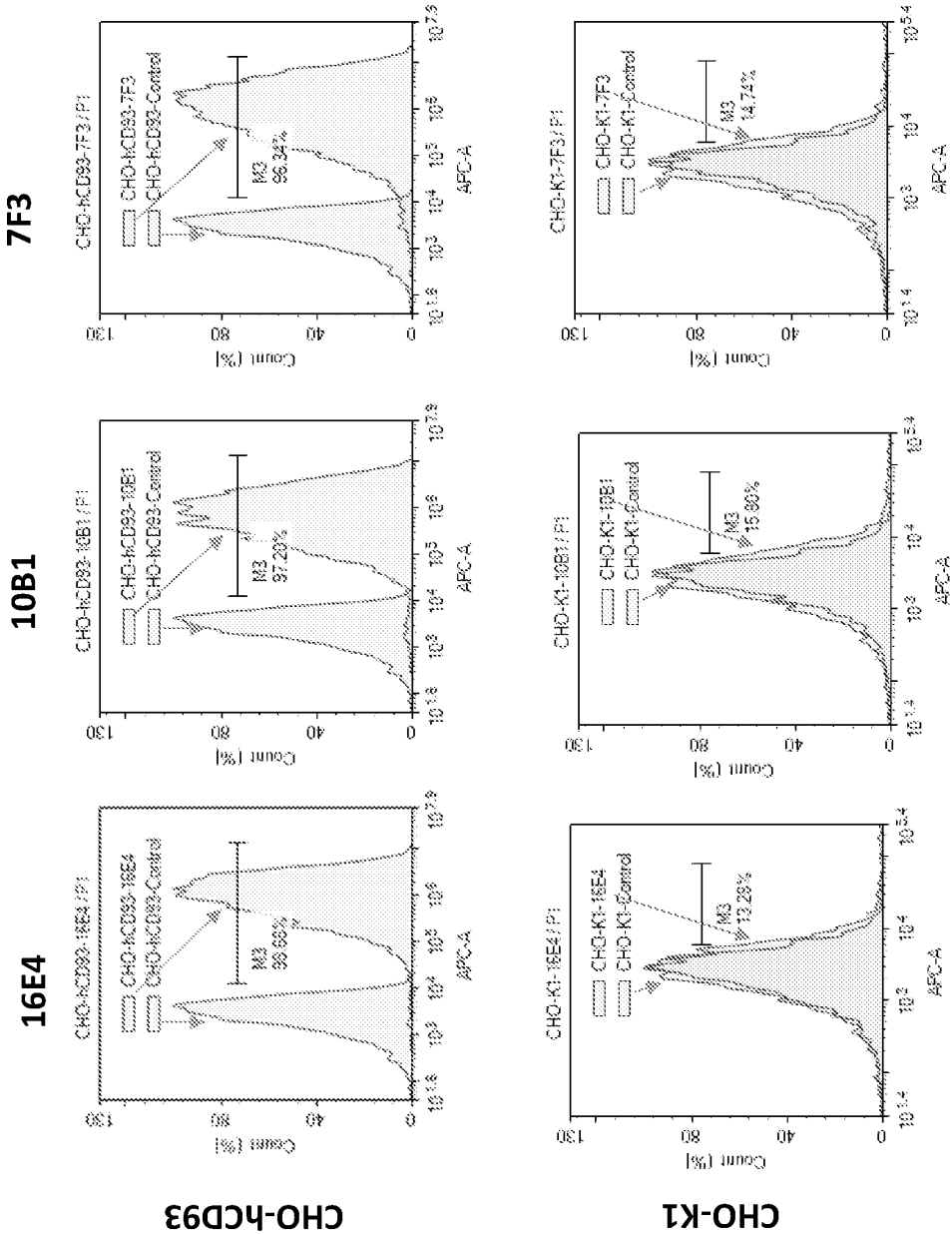


FIG. 11A

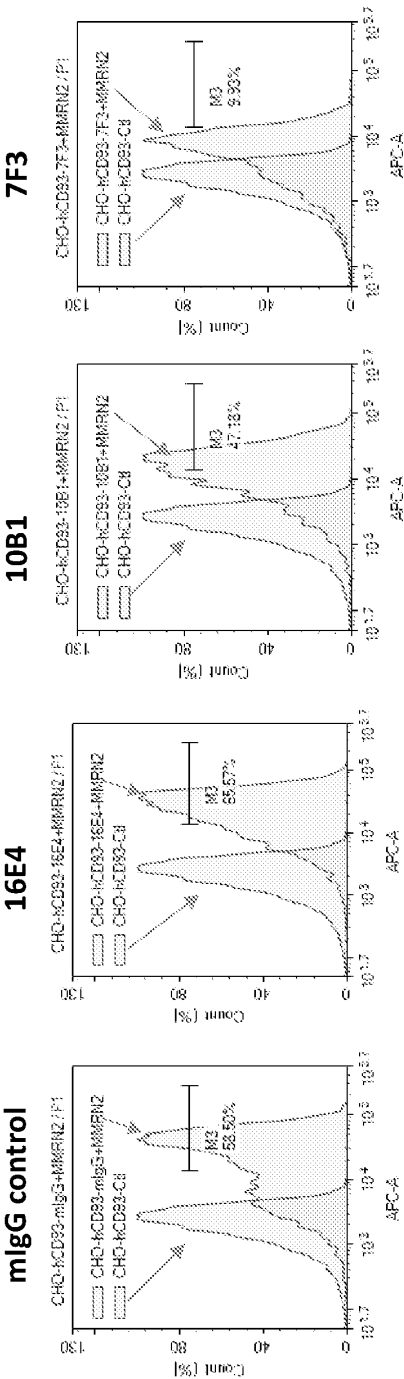


FIG. 11B

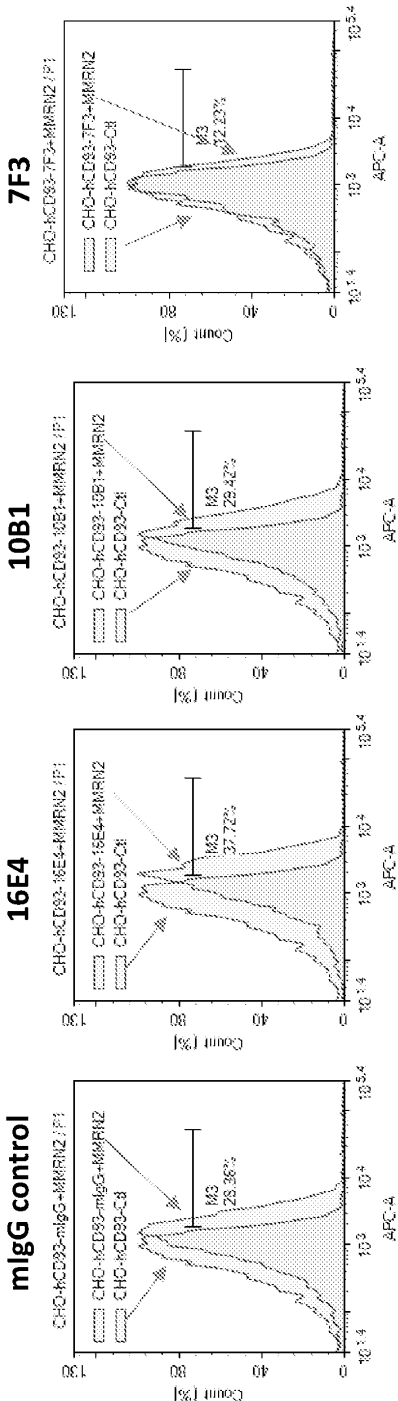
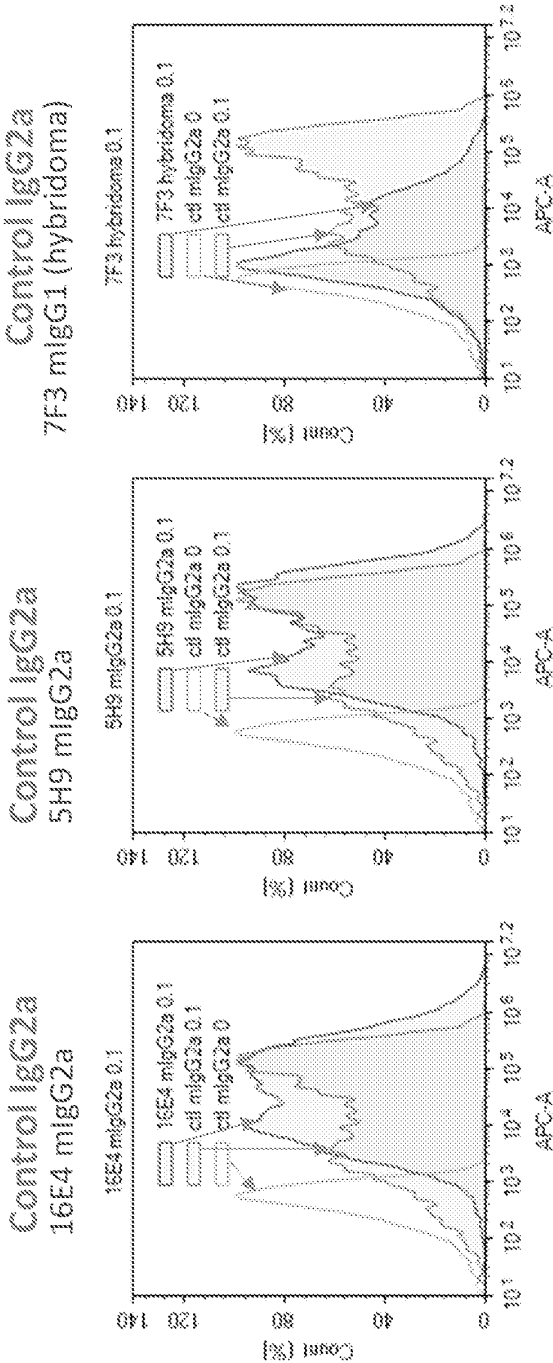


FIG. 12

0.1 ug/ml
MMRN2⁴⁹⁵⁻⁶⁷⁴



0.5 ug/ml
MMRN2⁴⁹⁵⁻⁶⁷⁴

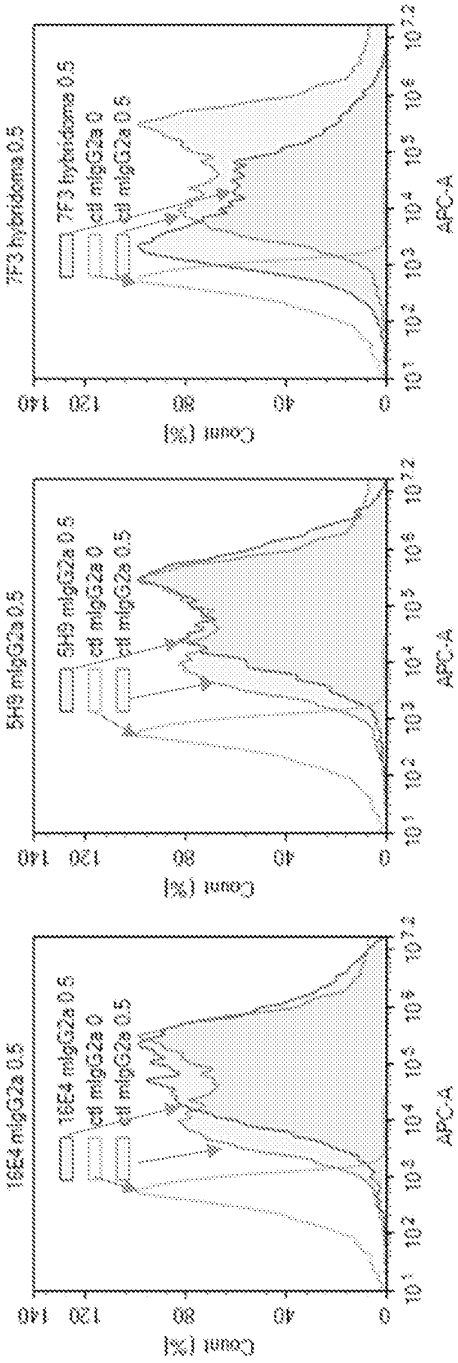


FIG. 13

Blocking assay of anti-hCD93 on hCD93/hMMRN2 in CHO-hCD93 cells

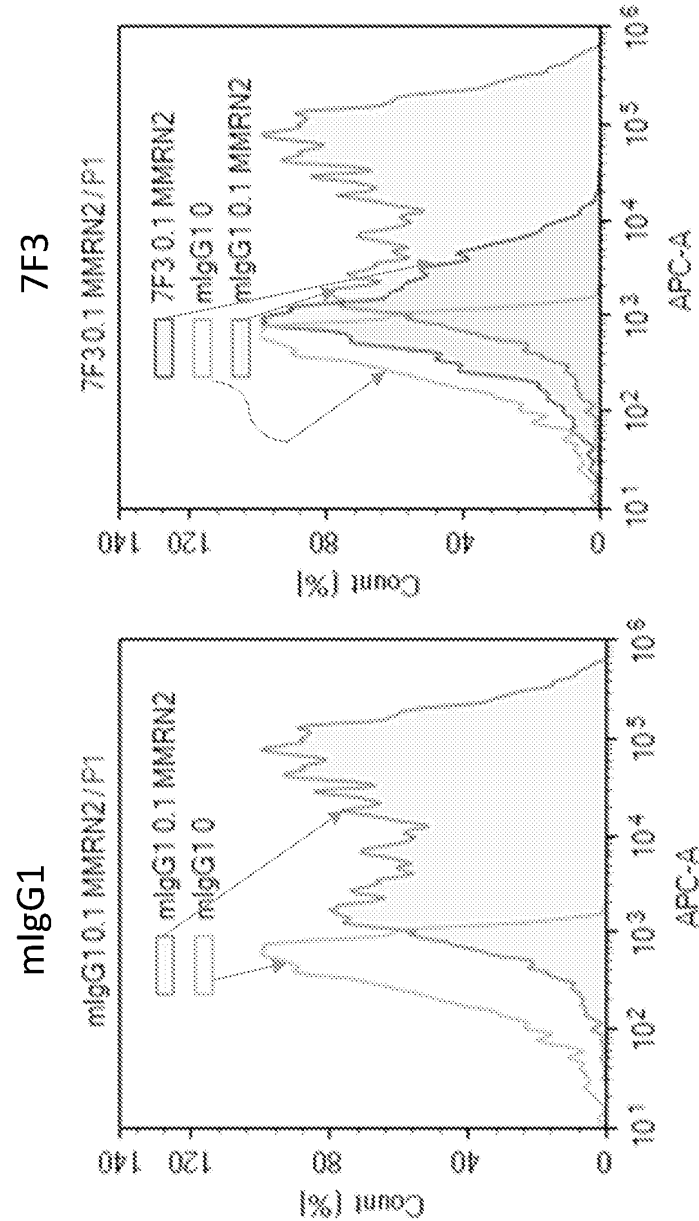


FIG. 14

FACS analysis of the blocking effect of 7F3 antibody on IGFBP7 binding to CHO-CD93 cells

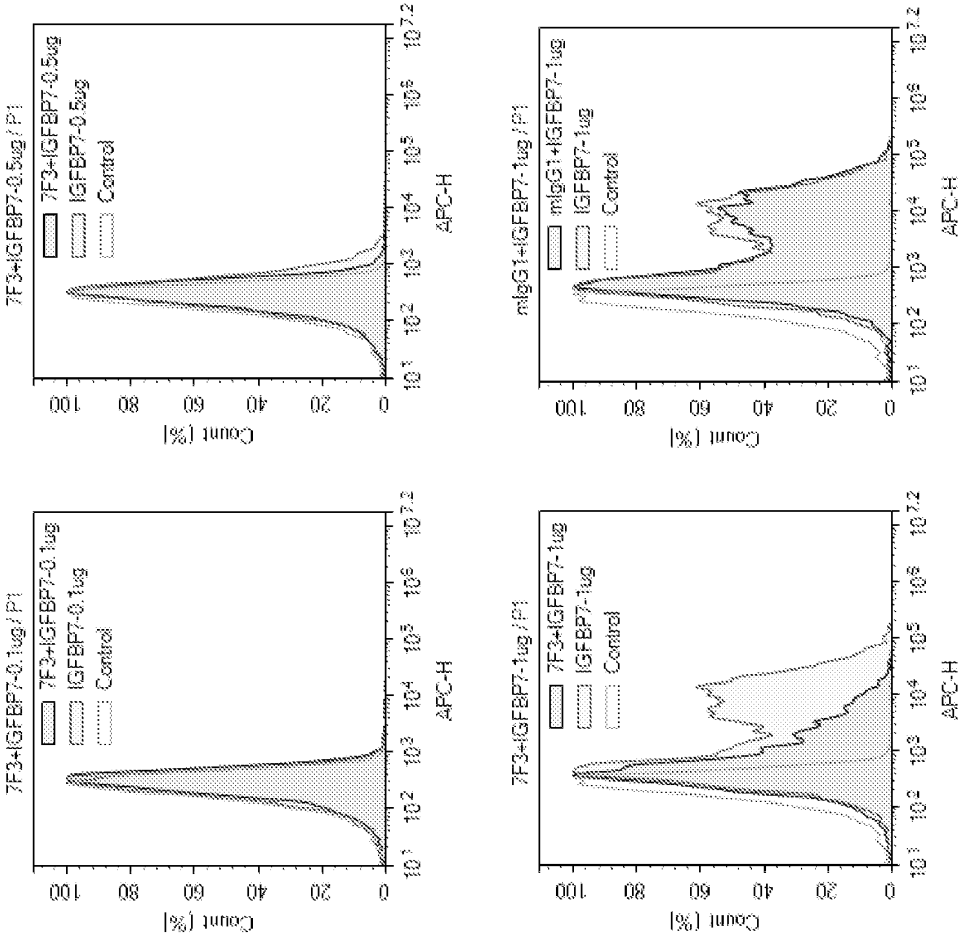


FIG. 15A

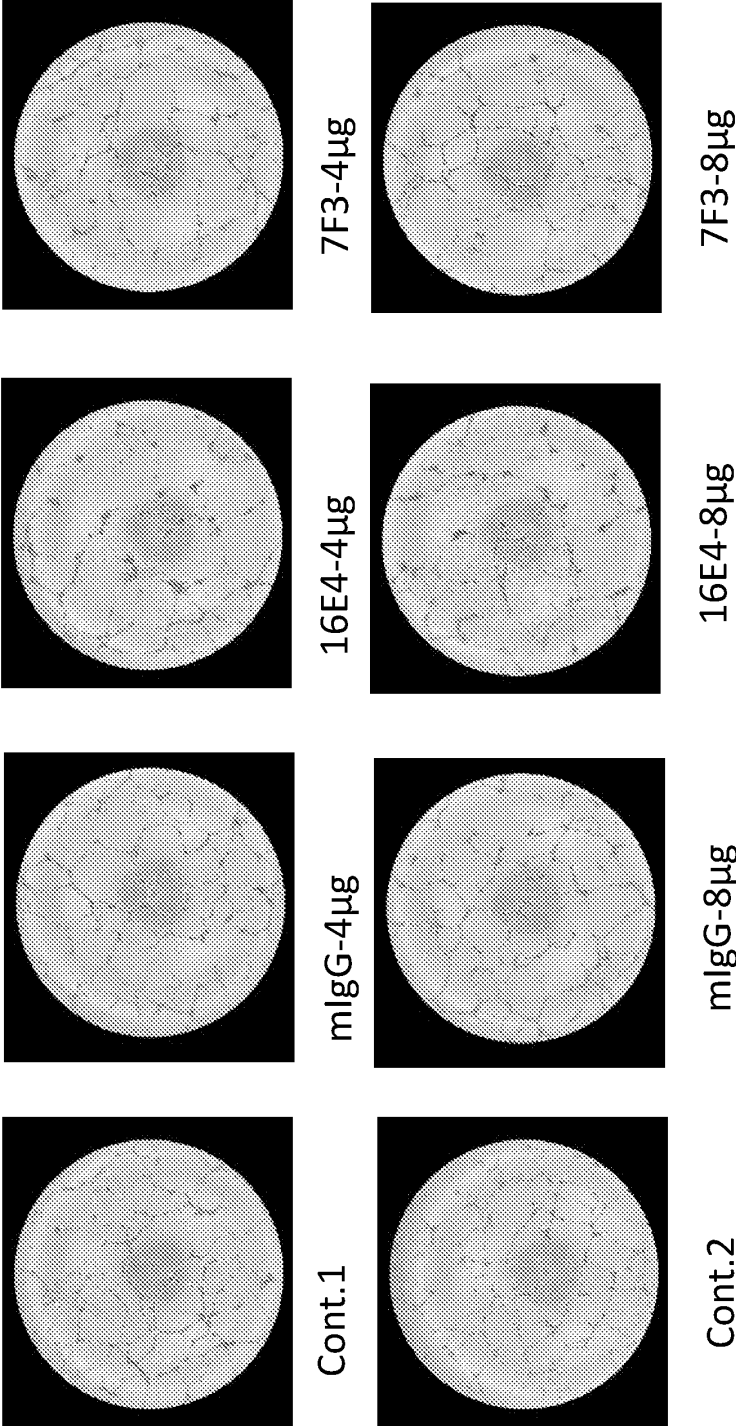


FIG. 15B

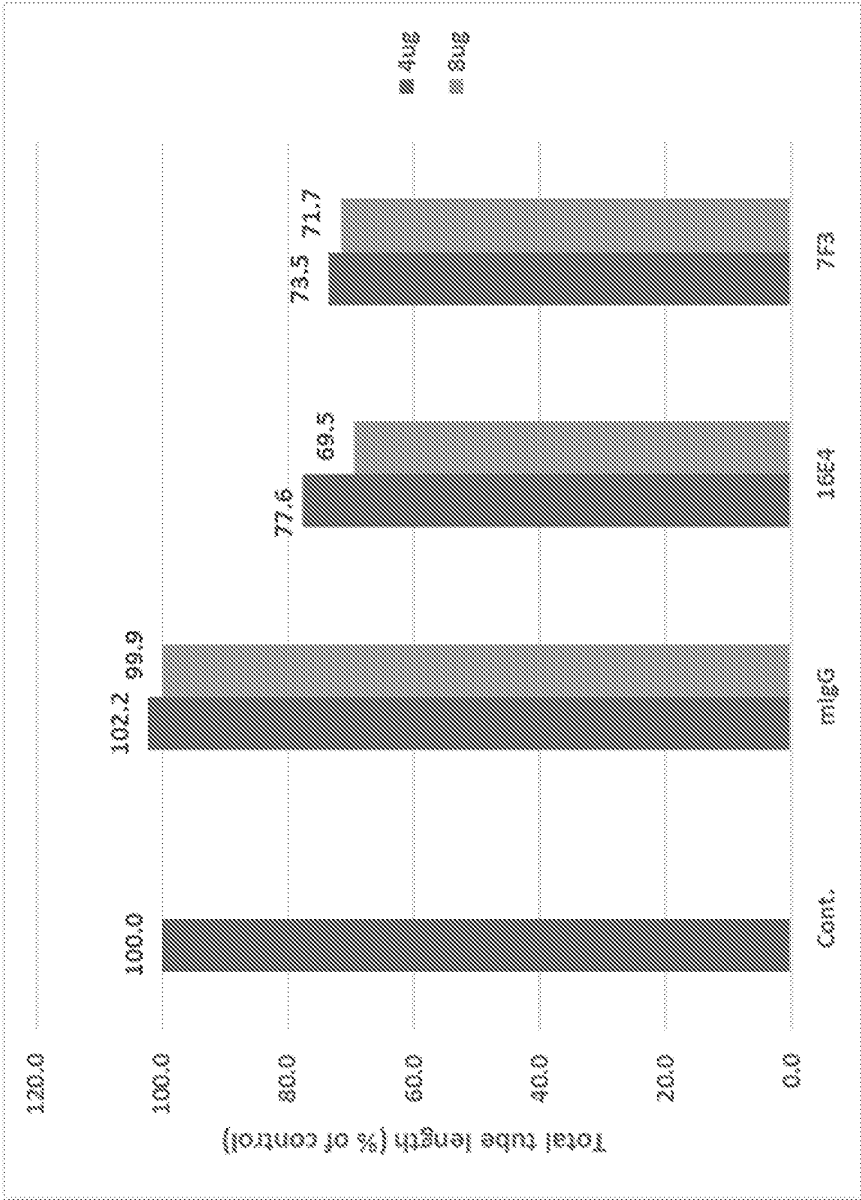


FIG. 16

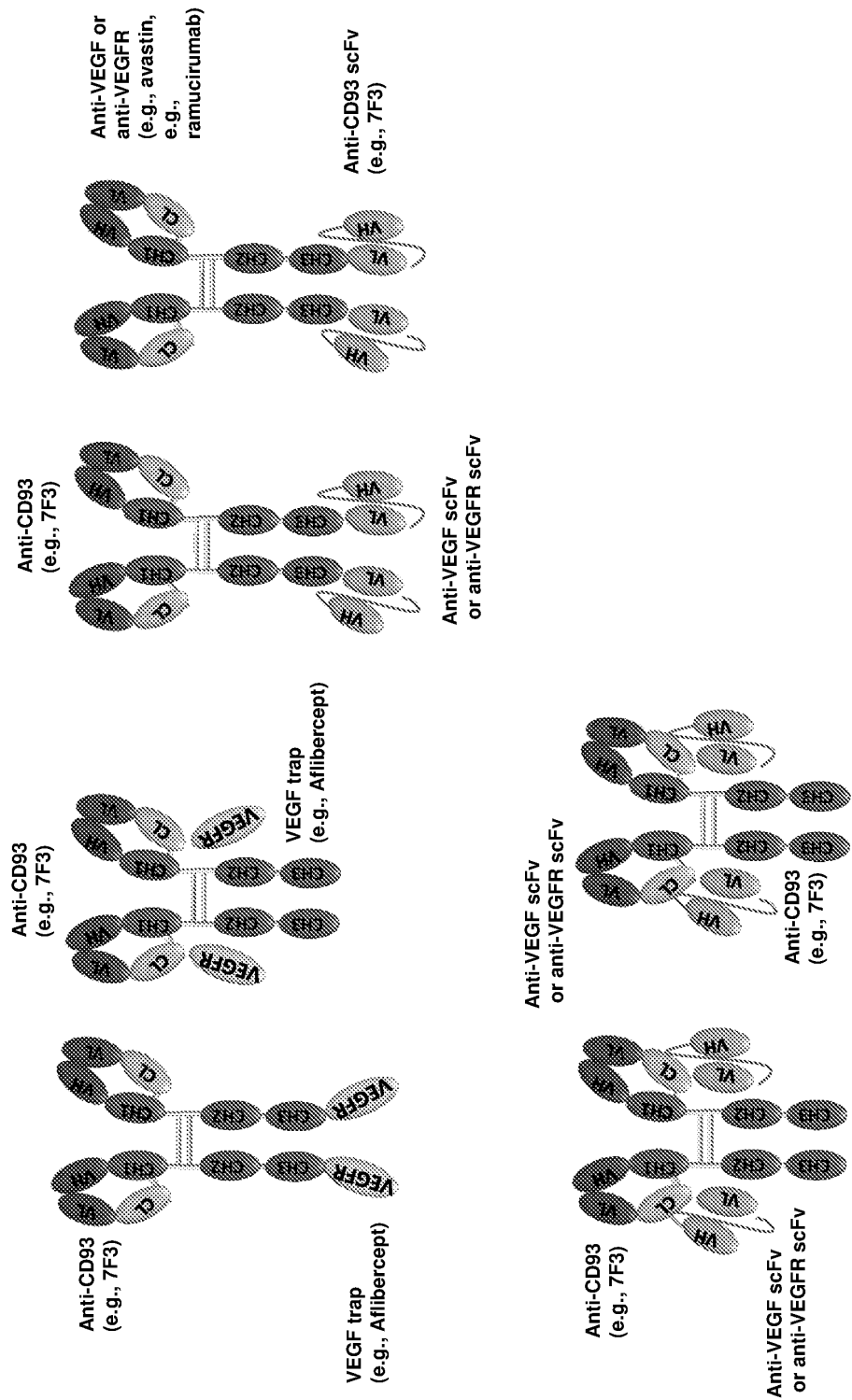


FIG. 17

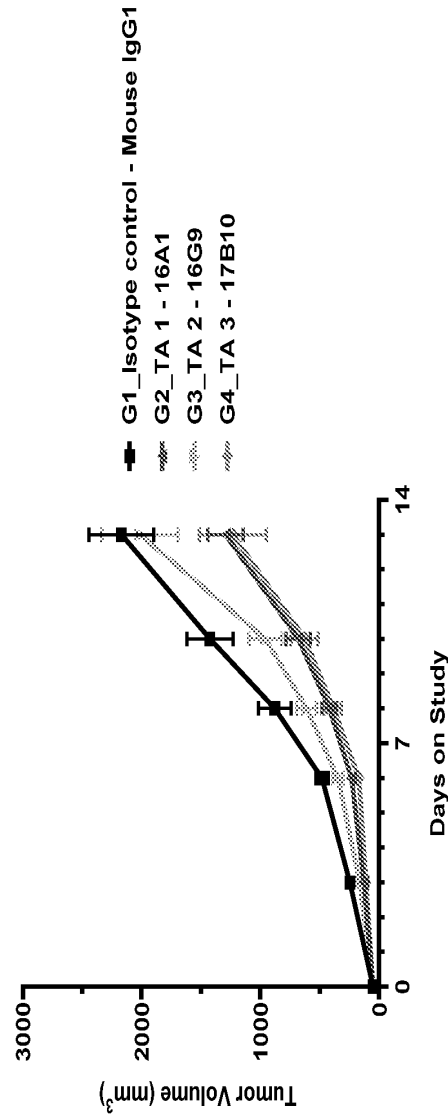


FIG. 18

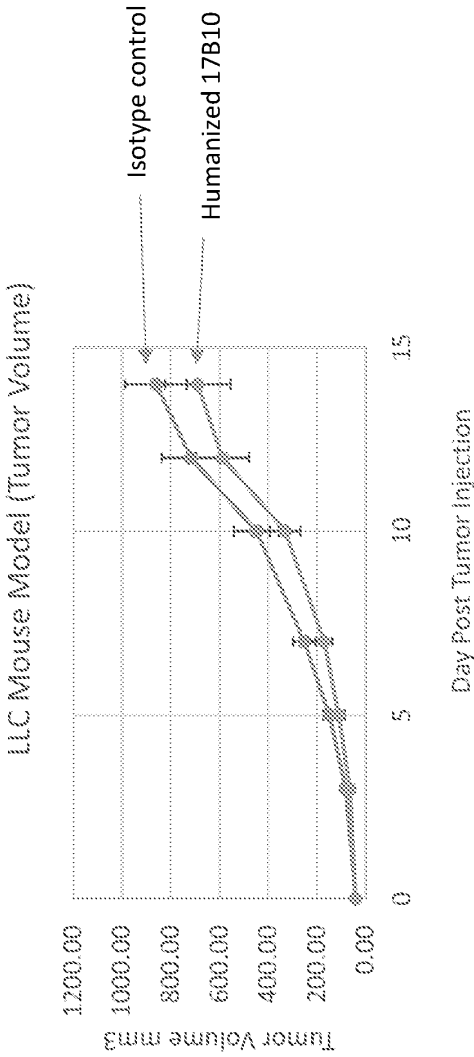


FIG. 19

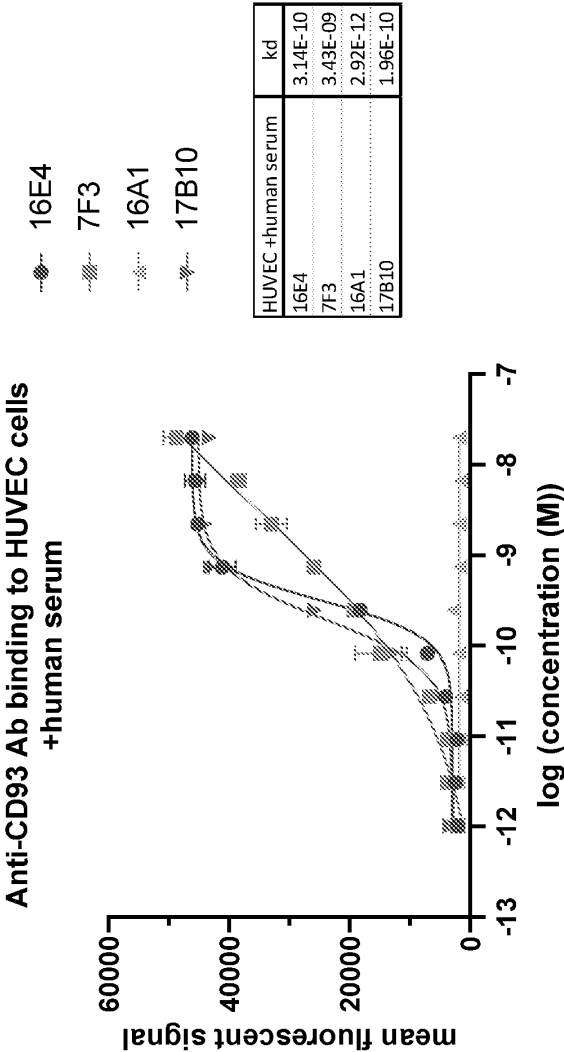


FIG. 20

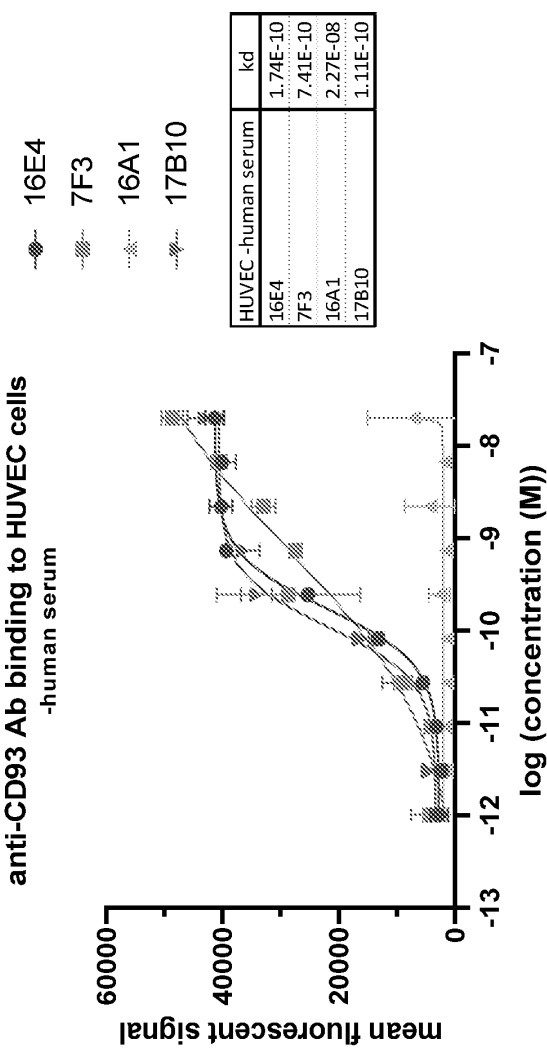


FIG. 21

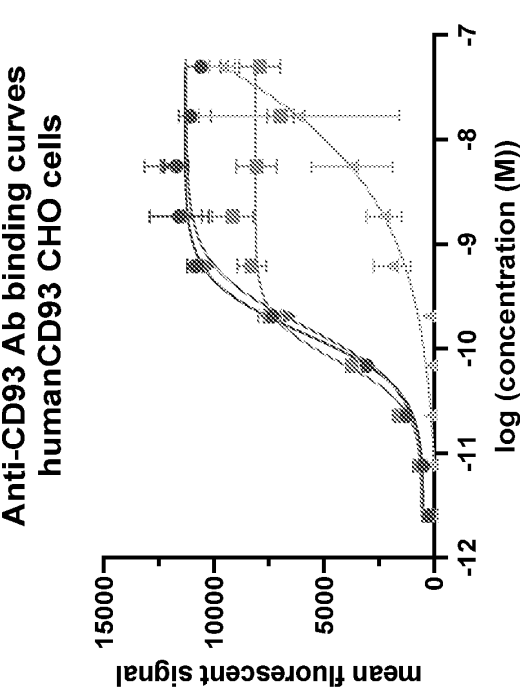


FIG. 22

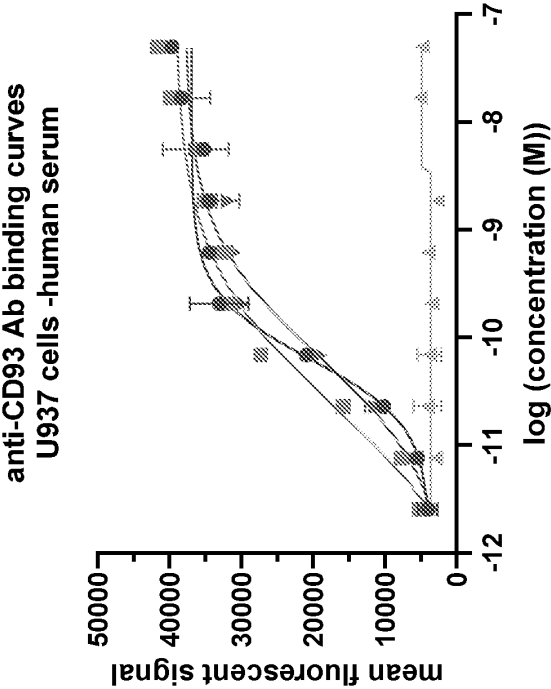


FIG. 23

17B10 (humanized, mouse IgG1, H3L3)

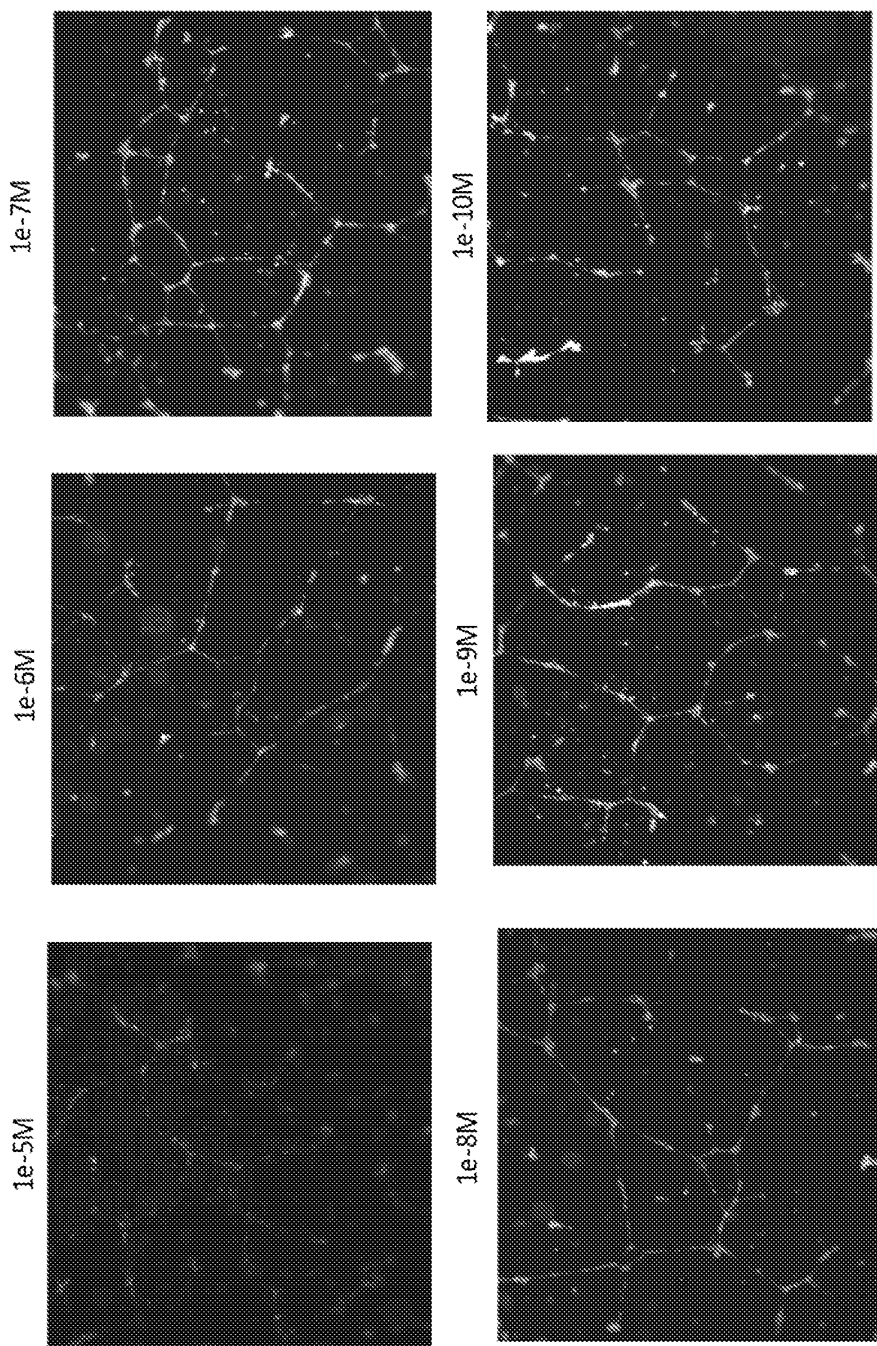


FIG. 24

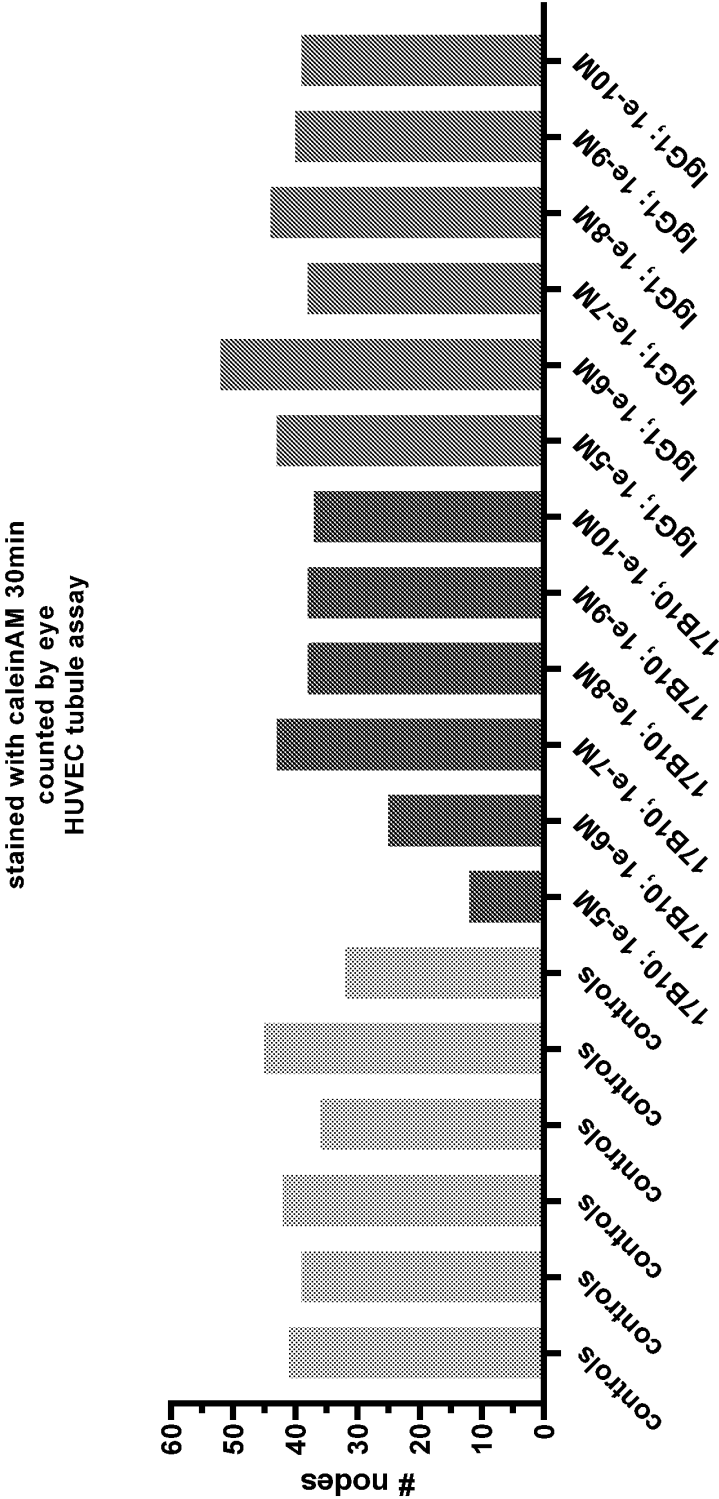


FIG. 25A

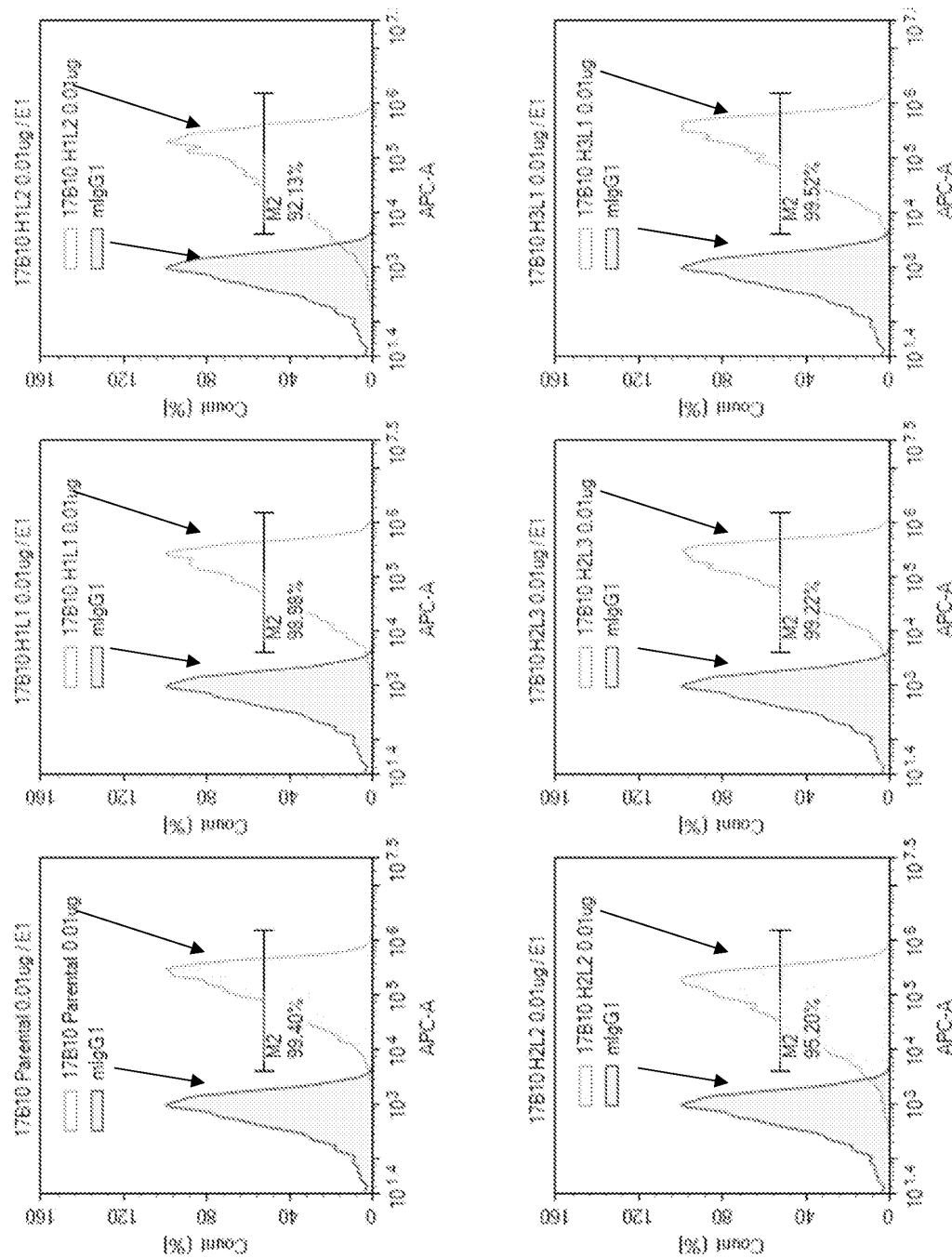


FIG. 25B

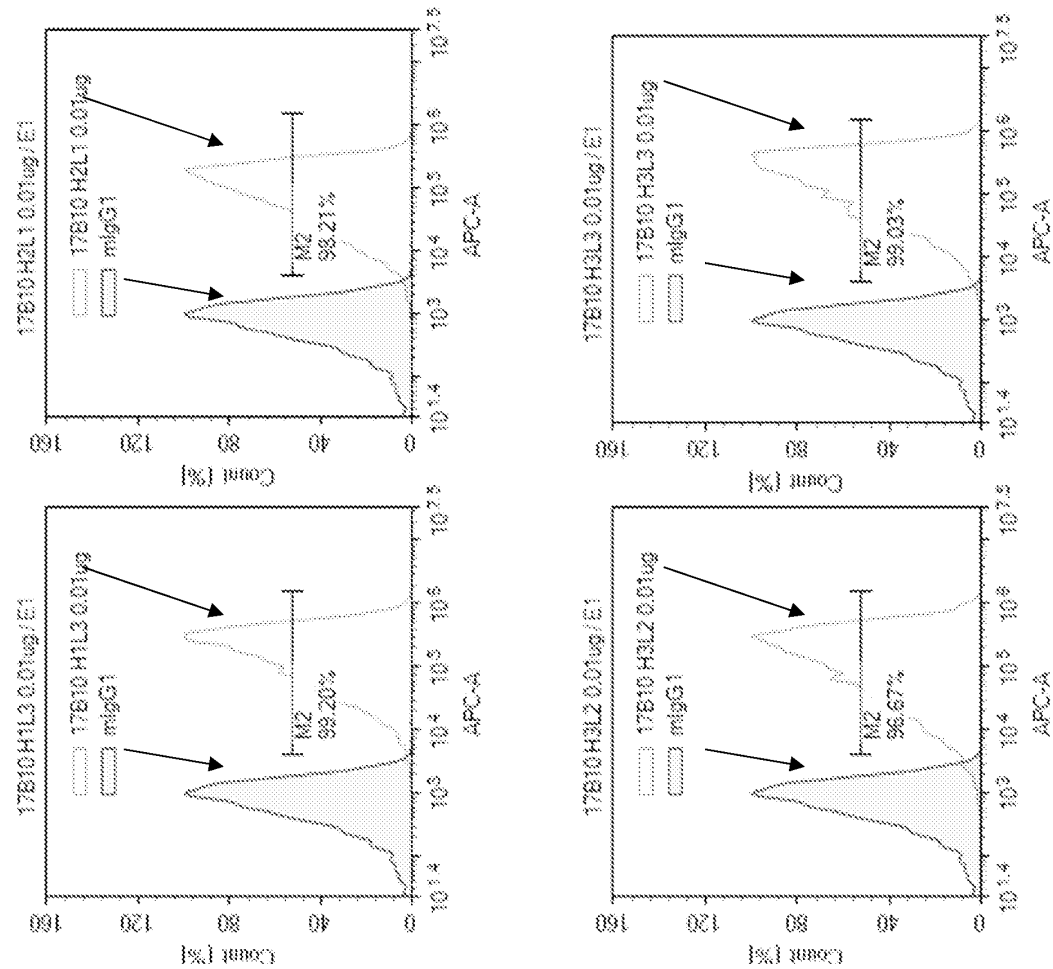


FIG. 26A

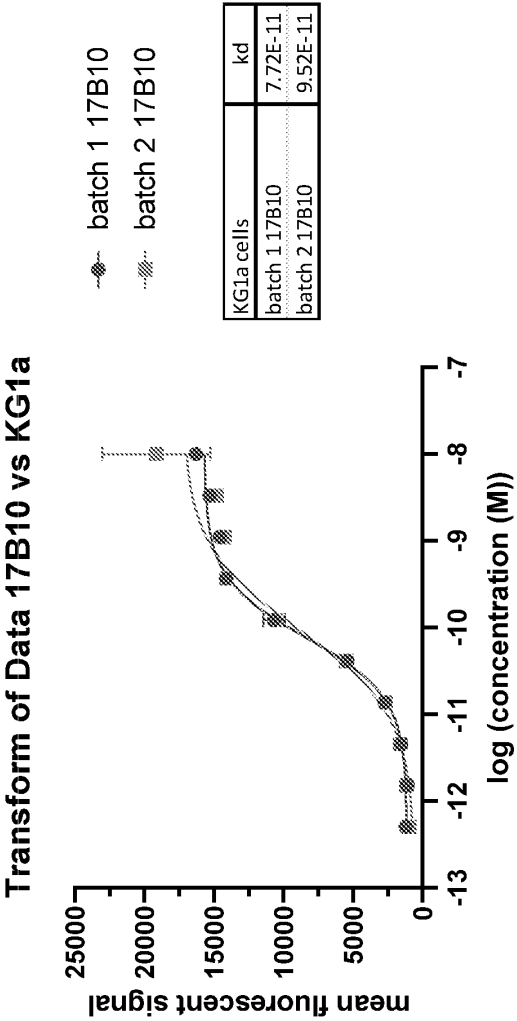


FIG. 26B

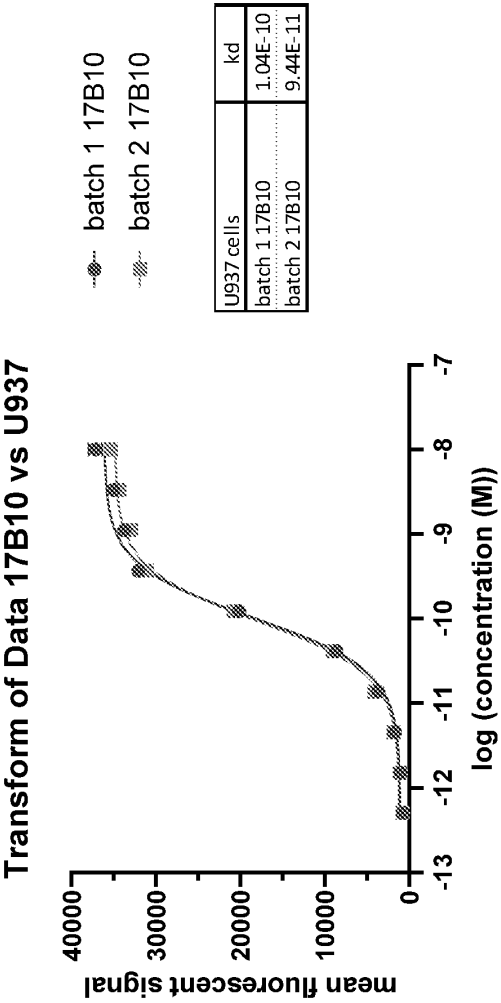


FIG. 27

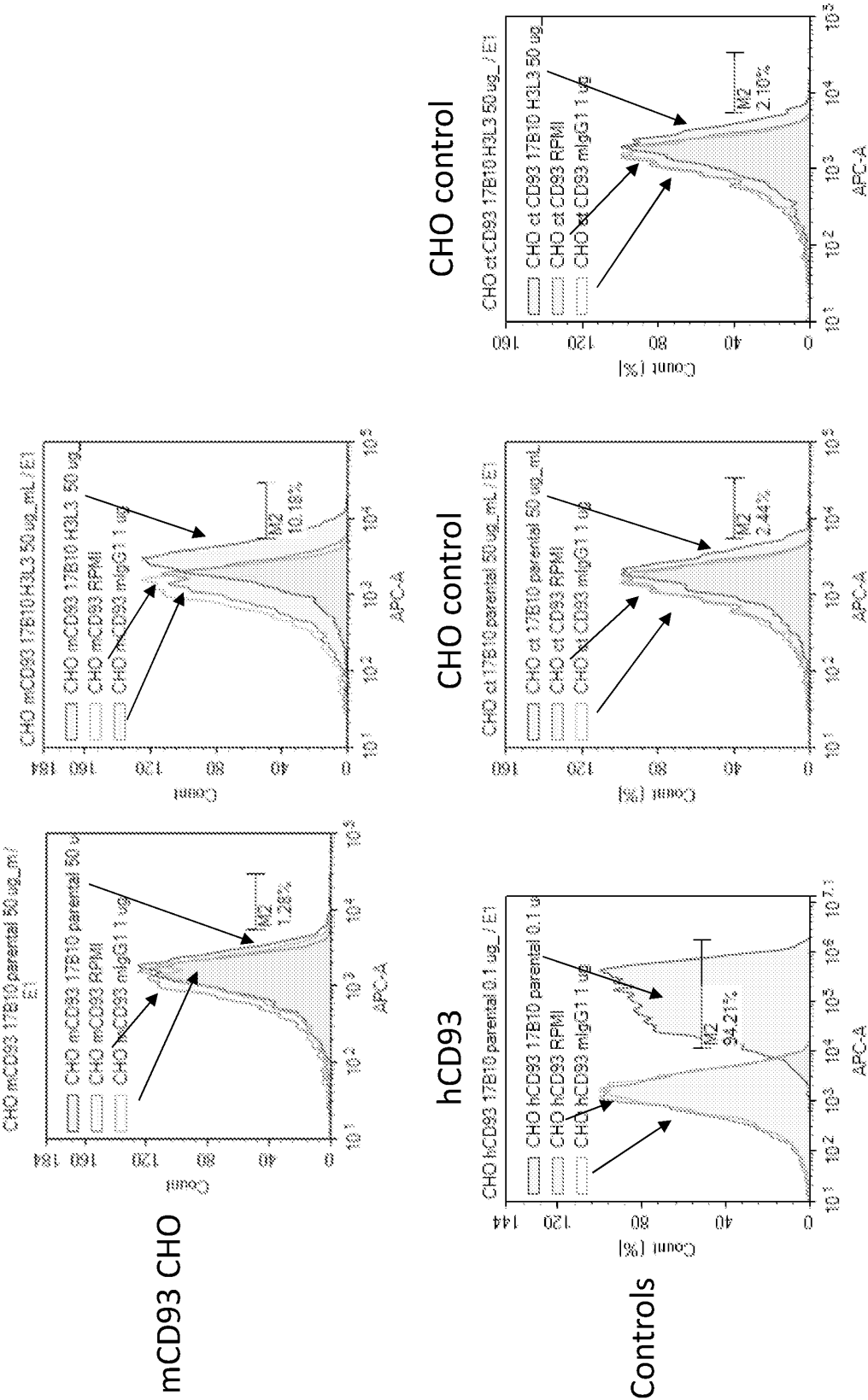


FIG. 28

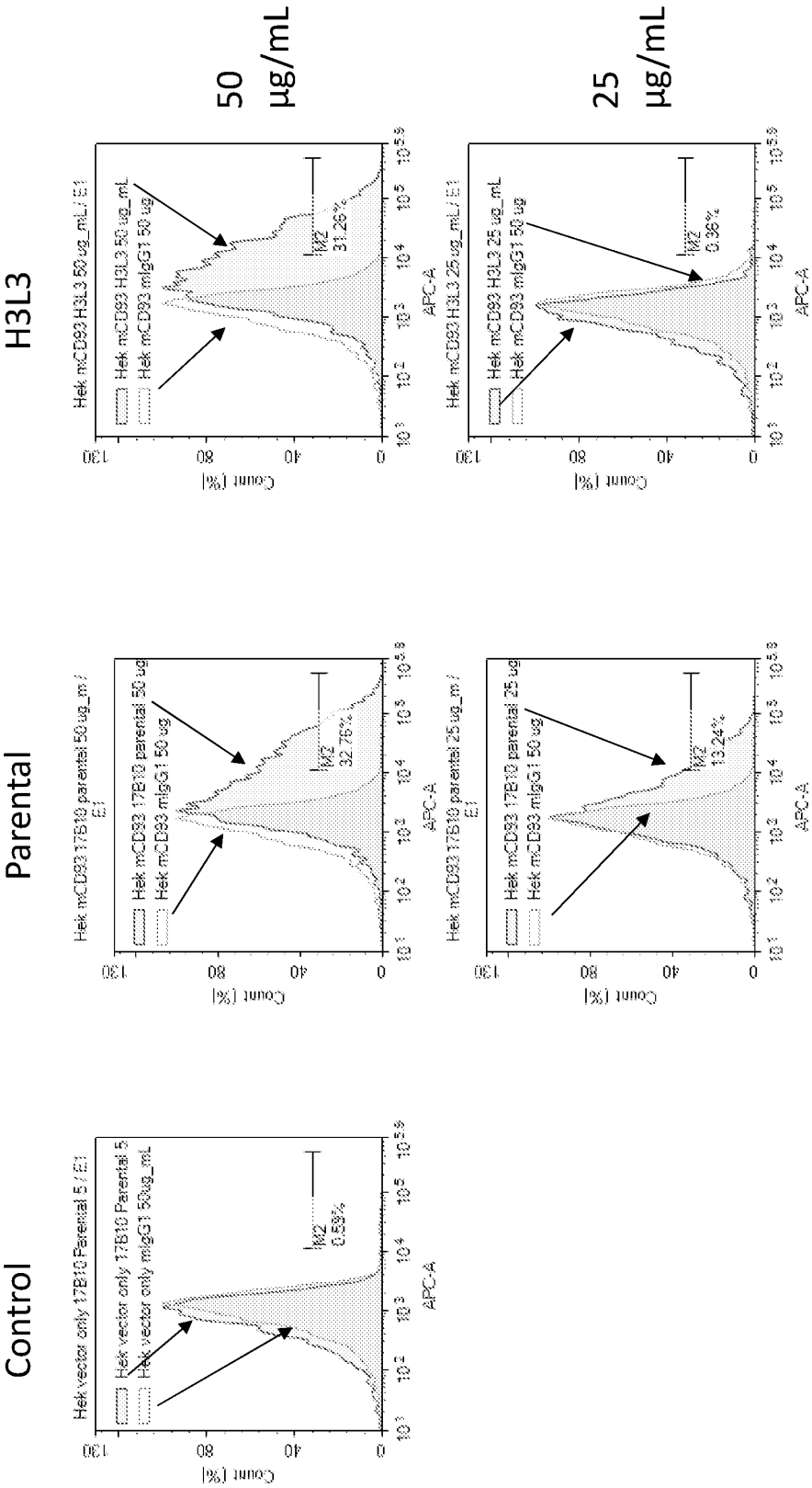


FIG. 29

SDS-PAGE analysis of humanized 16E4 and humanized 7F3

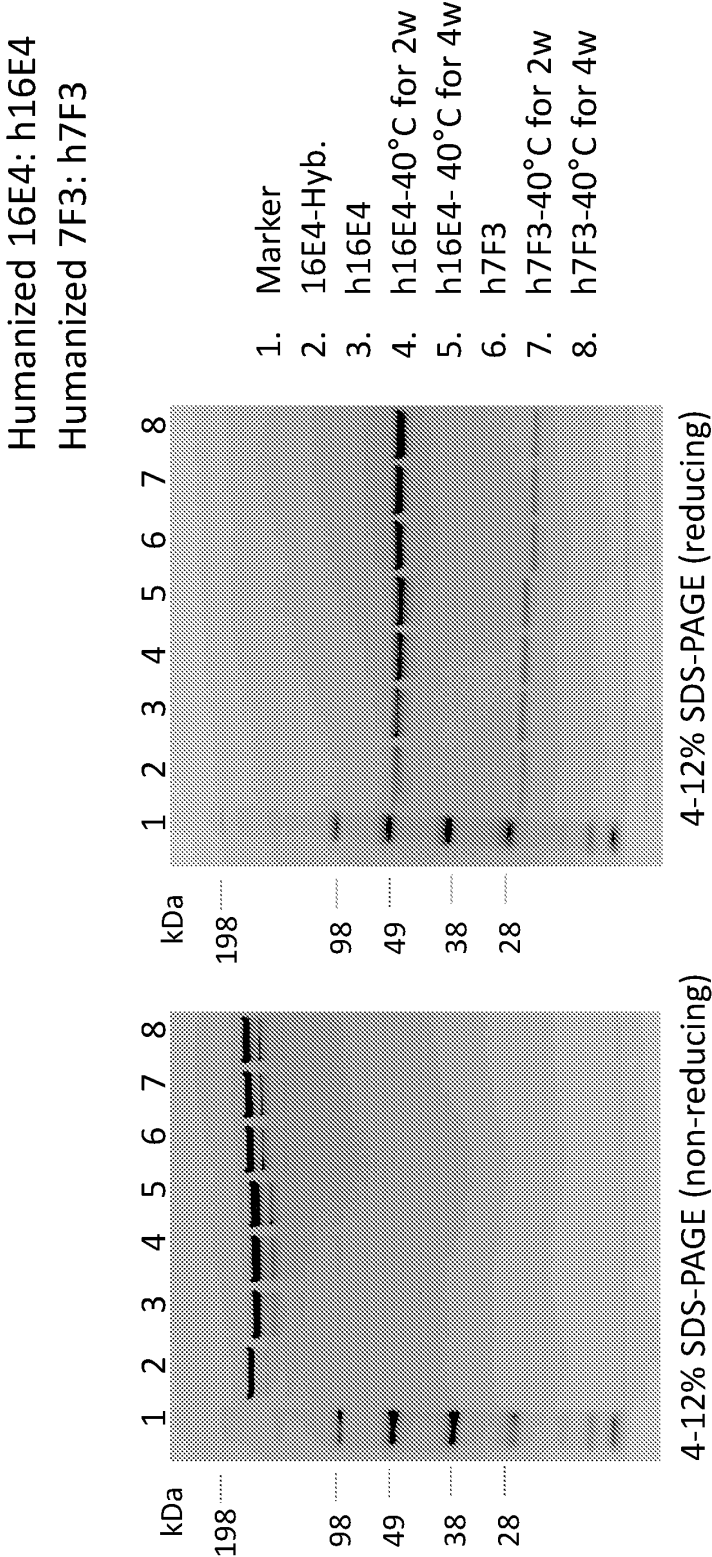


FIG. 30

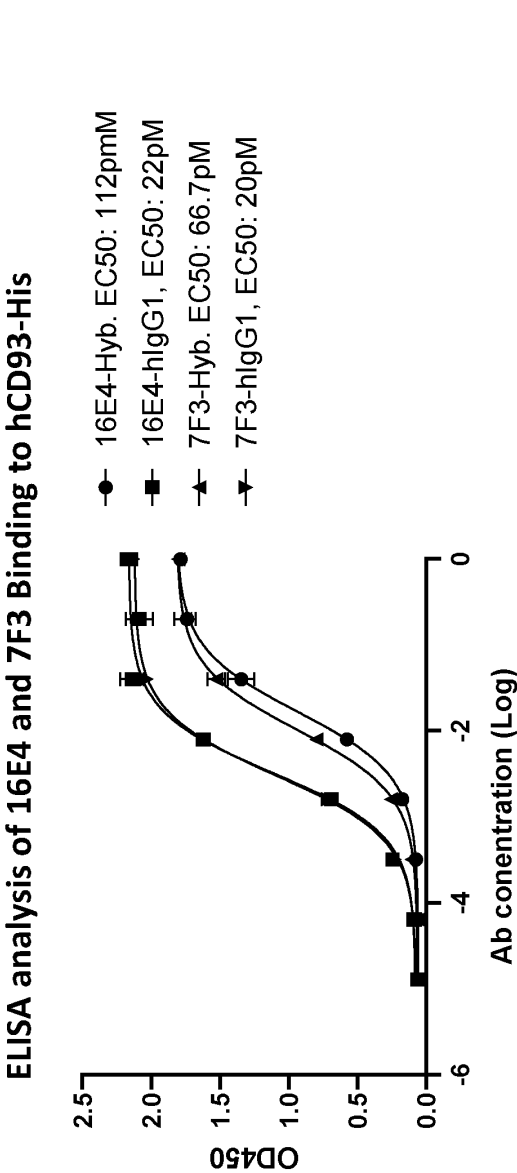


FIG. 31

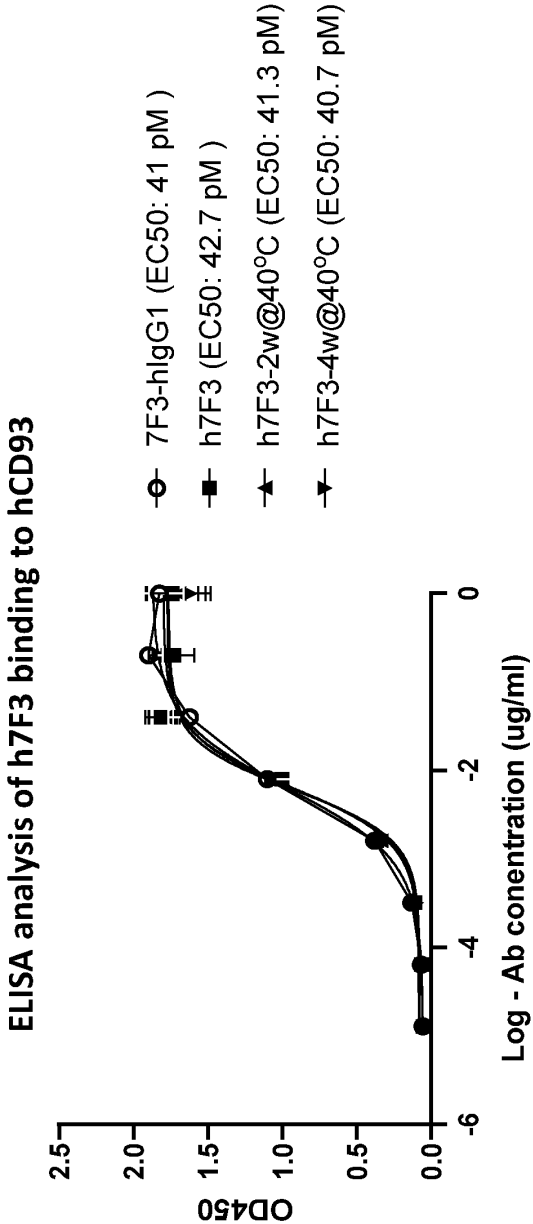


FIG. 32

ELISA analysis of h16E4 binding to hCD93

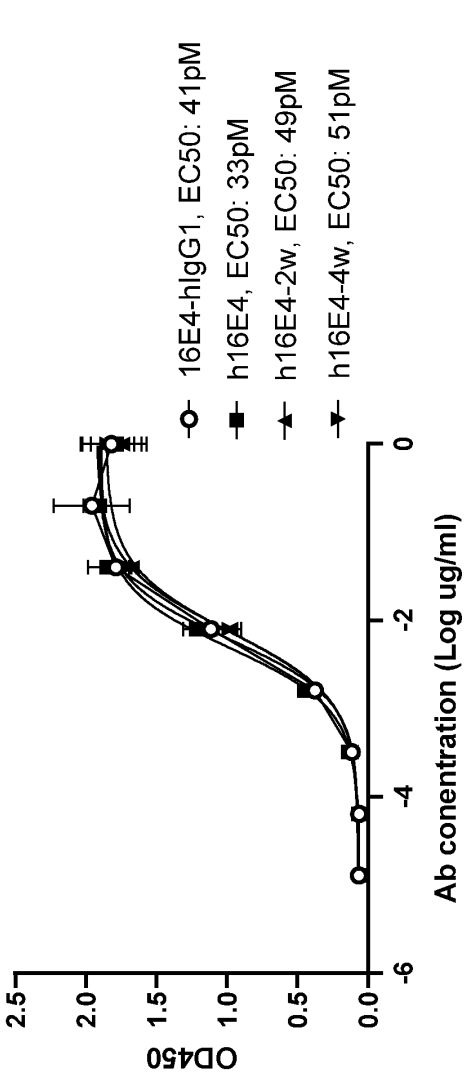


FIG. 33

ELISA analysis of 17B10 binding to hCD93

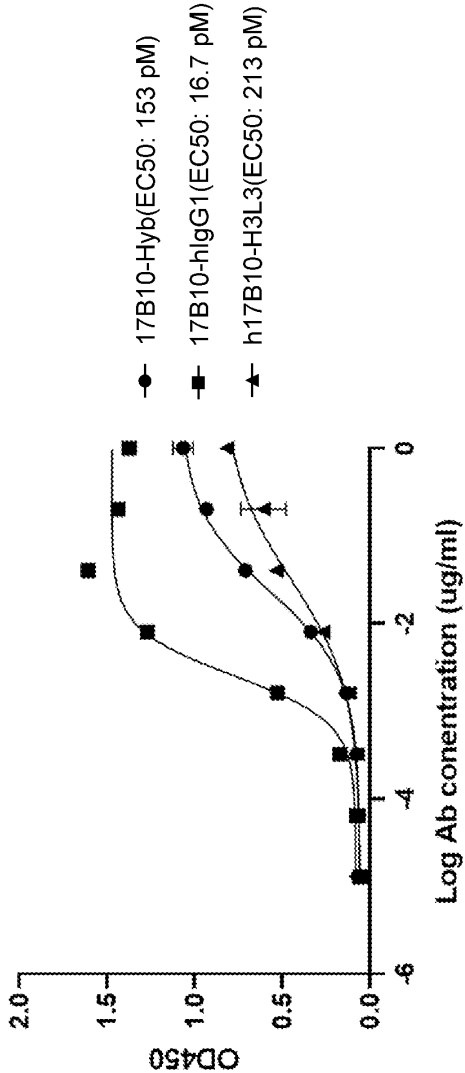


FIG. 34

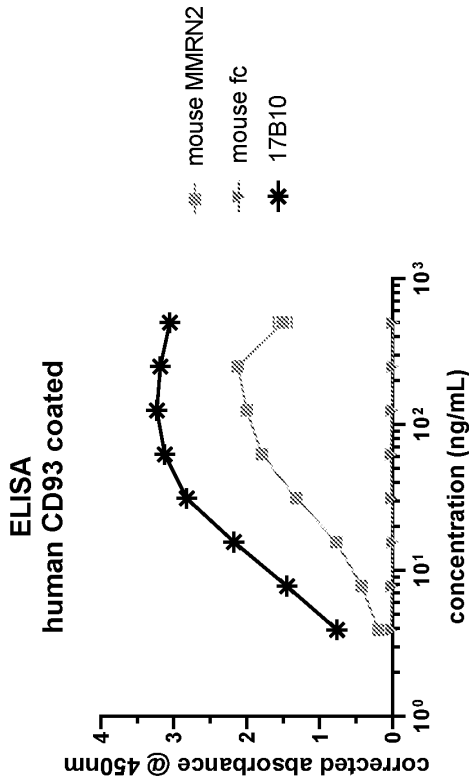


FIG. 35

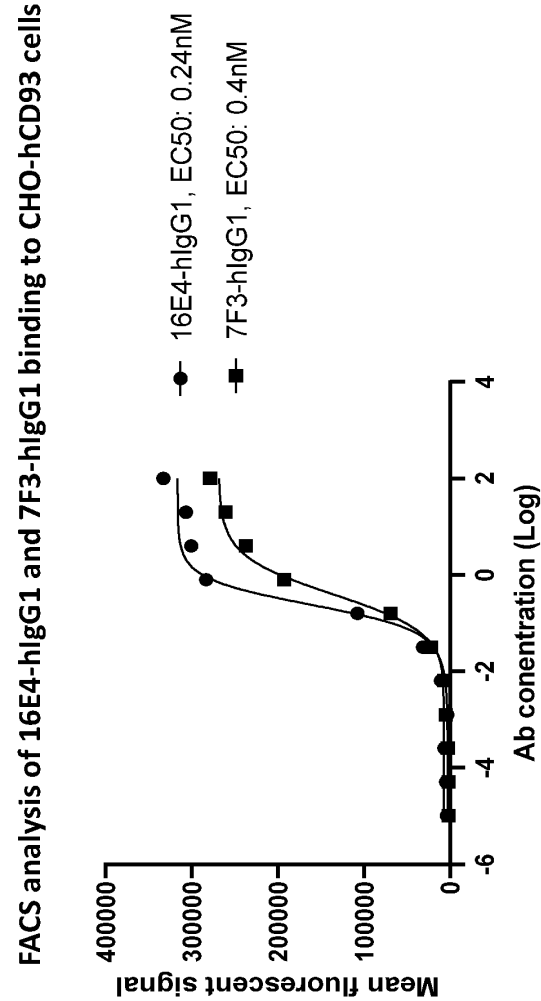


FIG. 36

FACS analysis of h7F3 binding to CHO-hCD93 cells

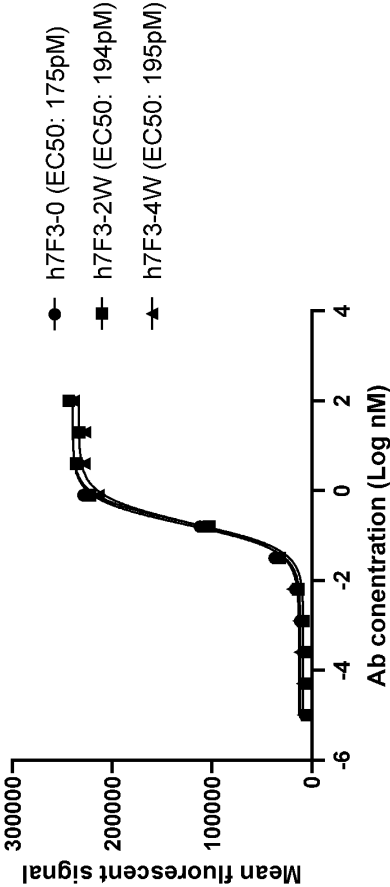


FIG. 37

FACS analysis of h16E4 binding to CHO-hCD93 cells

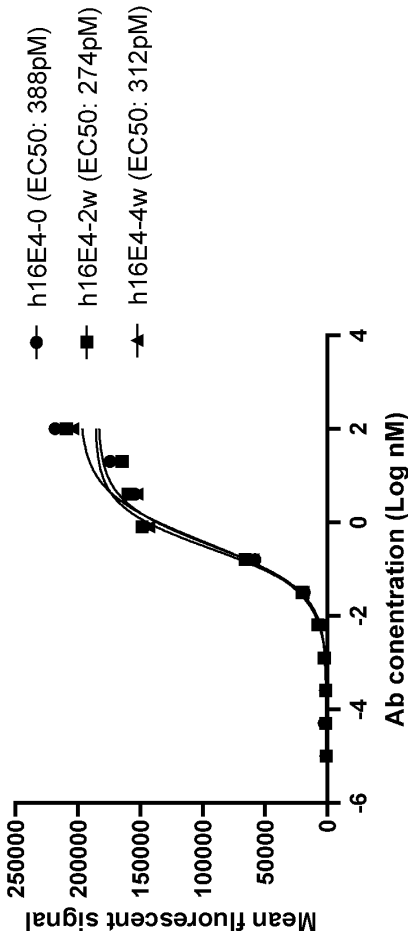


FIG. 38

FACS analysis of h7F3 binding to HUVEC cells

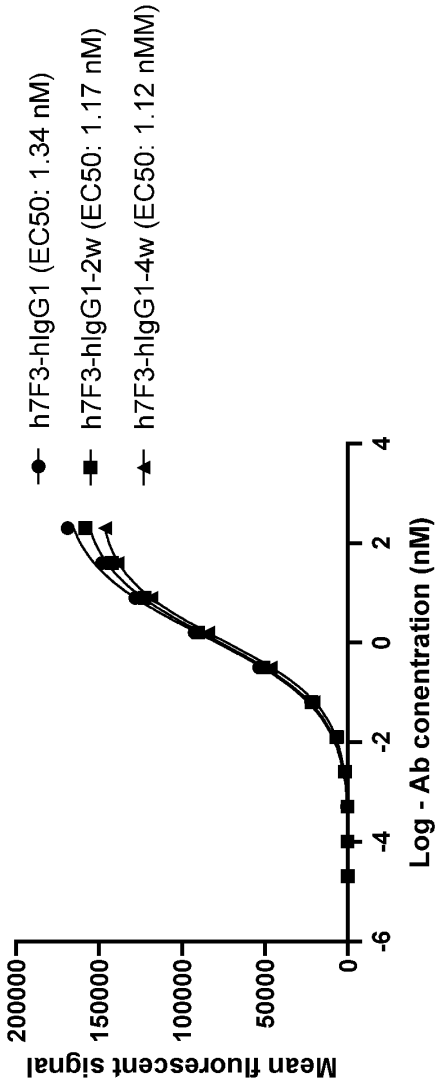


FIG. 39

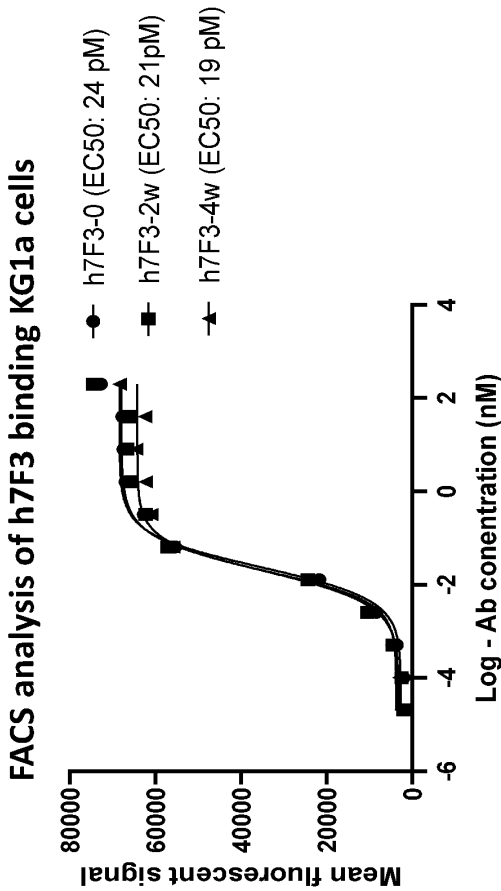


FIG. 40

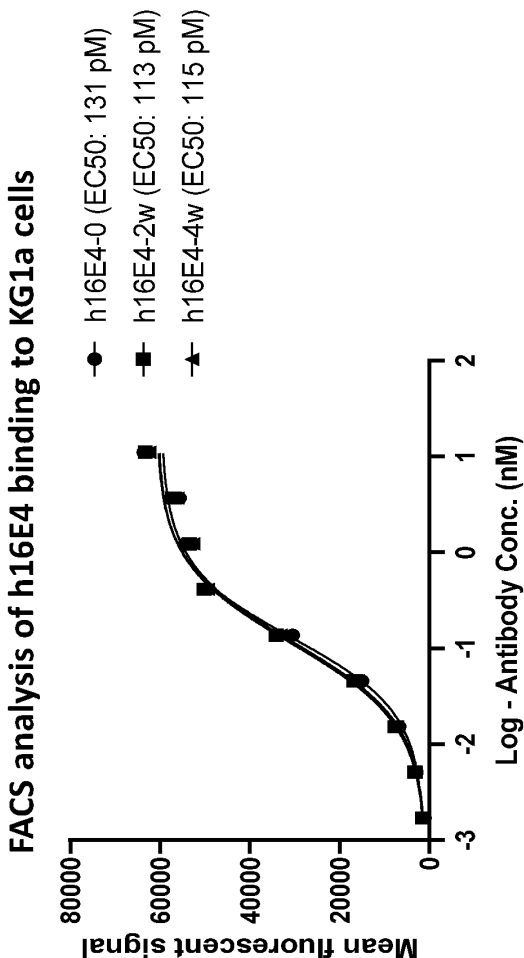
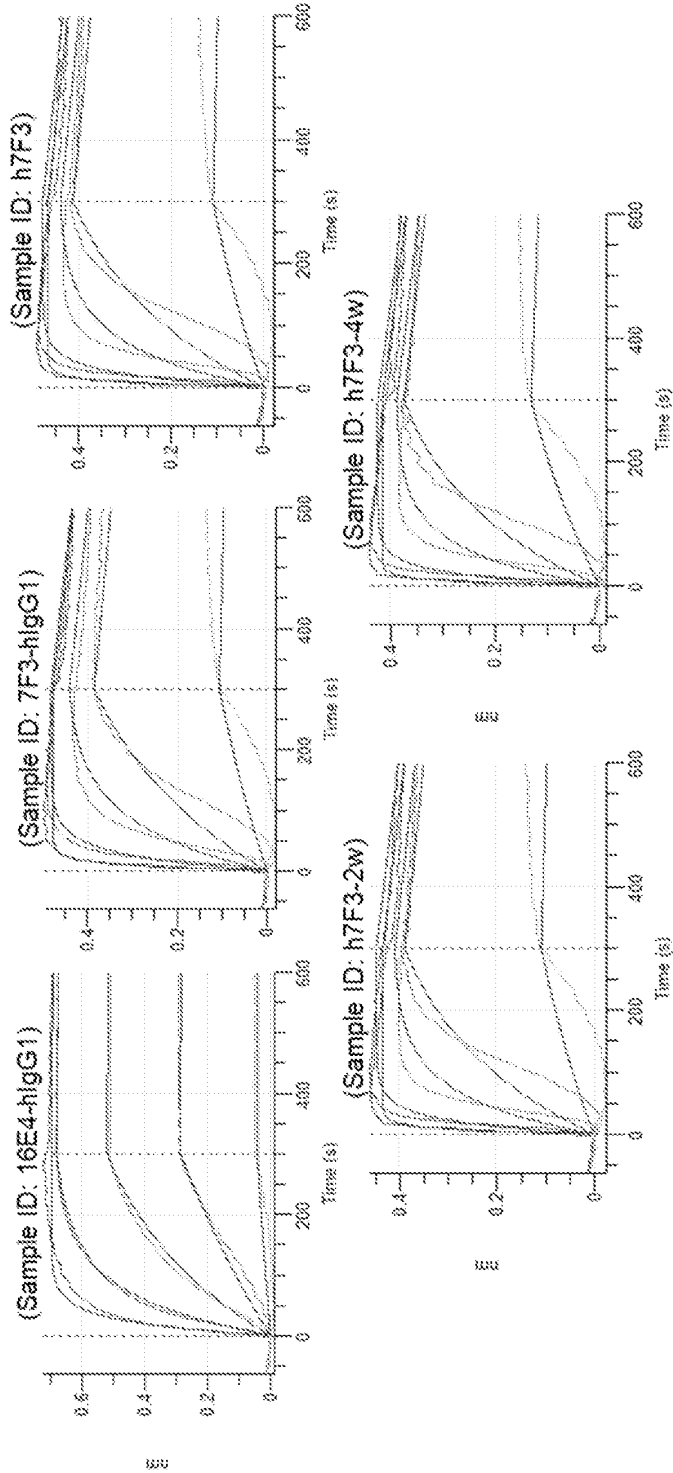


FIG. 41 Kinetic characterization of 16E4 and 7F3 binding to hCD93

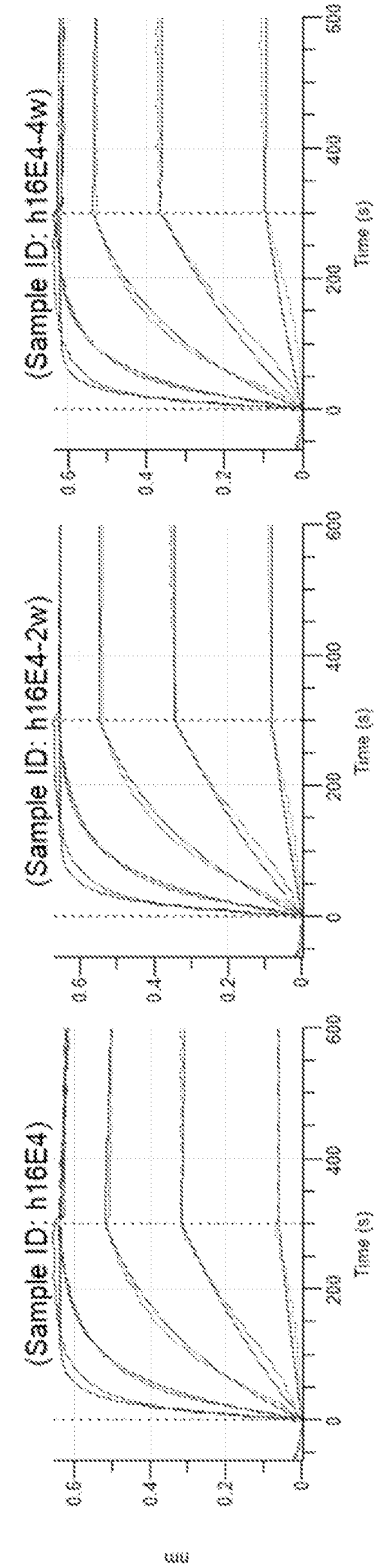


Sample ID	KD (M)	KD Error	ka (1/Ms)	ka Error	kdis (1/s)	kdis Error
16E4-hlgG1	1.35E-10	3.51E-11	2.17E+05	1.53E+03	2.93E-05	7.59E-06
7F3-hlgG1	5.88E-10	3.54E-11	5.70E+05	1.09E+04	3.35E-04	1.91E-05
h7F3	4.72E-10	3.19E-11	6.81E+05	1.43E+04	3.21E-04	2.07E-05
h7F3-2w	4.95E-10	3.23E-11	7.20E+05	1.60E+04	3.56E-04	2.19E-05
h7F3-4w	4.87E-10	2.83E-11	7.93E+05	1.70E+04	3.86E-04	2.09E-05

2 weeks at 40°C
4 weeks at 40°C

FIG. 42

Kinetic characterization of h16E4 binding to hCD93



Sample ID	KD (M)	KD Error	ka (1/Ms)	ka Error	kdis (1/s)	kdis Error
h16E4	4.16E-10	2.55E-11	249400	1490	1.04E-04	6.34E-06
h16E4-2w	2.04E-11	2.66E-11	248600	1549	5.08E-06	6.62E-06
h16E4-4w	1.12E-10	2.47E-11	288600	1994	3.24E-05	7.13E-06

FIG. 43

Summary of 16E4 and 7F3 binding affinity by Octet

Ab	ELISA (hCD93)	Octet (hCD93)	FACS (CHO-hCD93 cells)
16E4-Hyb.	112 pM	334 pM	590 pM
16E4-hlgG1	41 pM	135 pM	240 pM
h16E4	33 pM	416 pM	388 pM
h16E4-2w	49 pM	20.4 pM	274 pM
h16E4-4w	51 pM	112 pM	312 pM
7F3-Hyb.	66.7 pM	493 pM	210 pM
7F3-hlgG1	41 pM	588 pM	400 pM
h7F3	42.7 pM	472 pM	175 pM
h7F3-2w	41.3 pM	495 pM	194 pM
h7F3-4w	40.7 pM	487 pM	195 pM

Ab	FACS (HUVEC cells)	FACS (KG1a cells)
16E4-Hyb.	200 pM	
16E4-hlgG1		
h16E4		131 pM
h16E4-2w		113 pM
h16E4-4w		115 pM
7F3-Hyb.	2.94 nM	
7F3-hlgG1		
h7F3	1.34 nM	24 pM
h7F3-2w	1.17 nM	21 pM
h7F3-4w	1.12 nM	19 pM

2 weeks at 40°C

4 weeks at 40°C

2 weeks at 40°C

4 weeks at 40°C

2 weeks at 40°C

4 weeks at 40°C

FIG. 44 FACS analysis of h7F3 blocking hMMRN2 binding to CHO-hCD93 cells

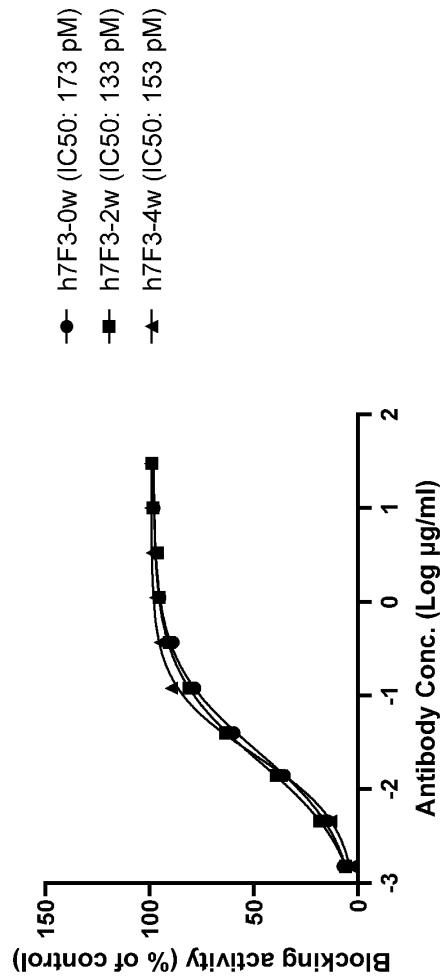


FIG. 45 MMRN2 blocking assay in CHO-hCD93 cells

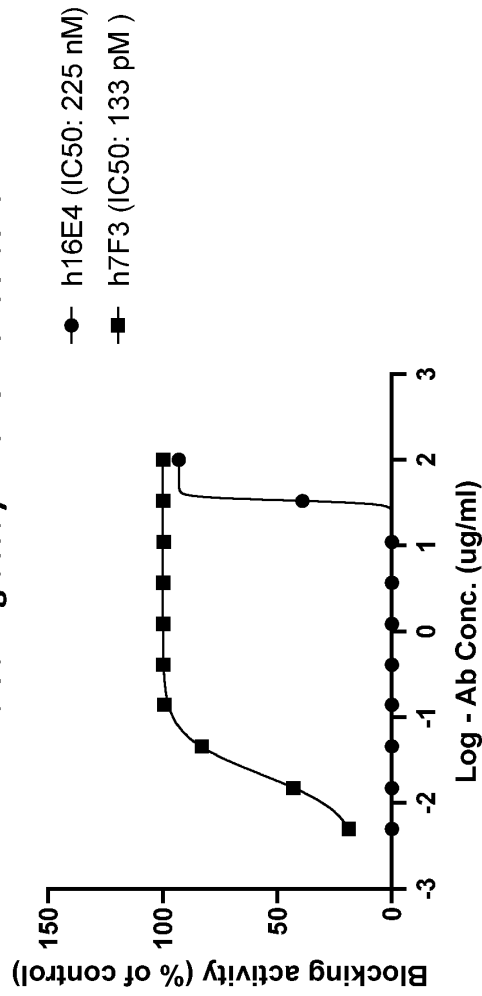


FIG. 46

FACS analysis of h7F3 blocking hIGFBP7-His binding to HUVEC cells

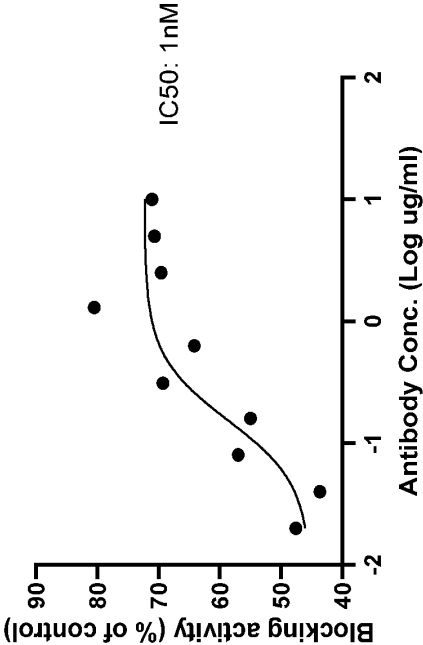


FIG. 47 Octet analysis of 7F3 blocking hIGFBP7 binding to hCD93

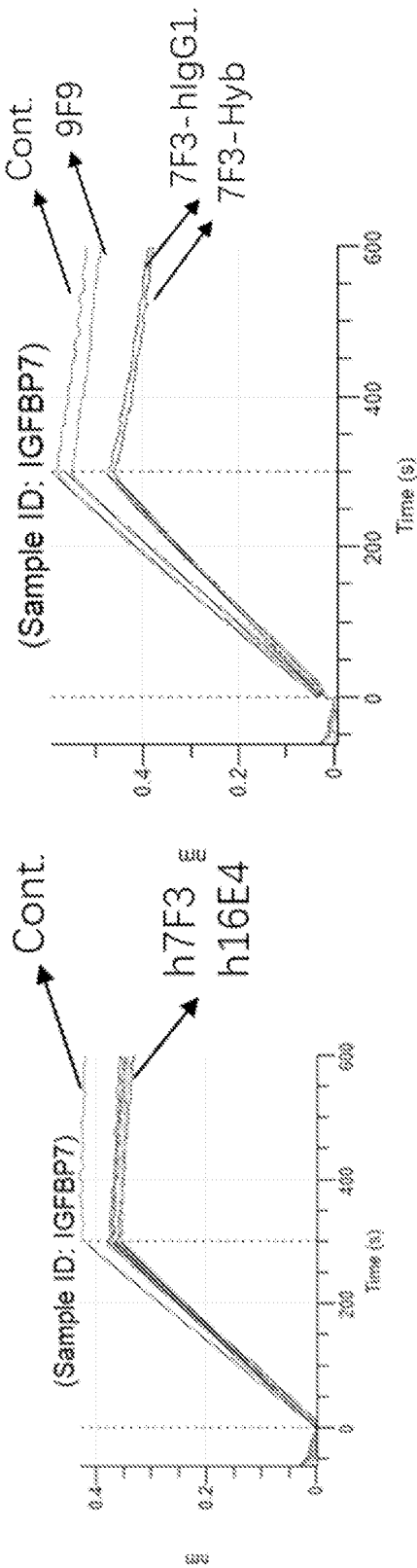


FIG. 48 Octet analysis of 16E4 blocking hIGFBP7 binding to hCD93

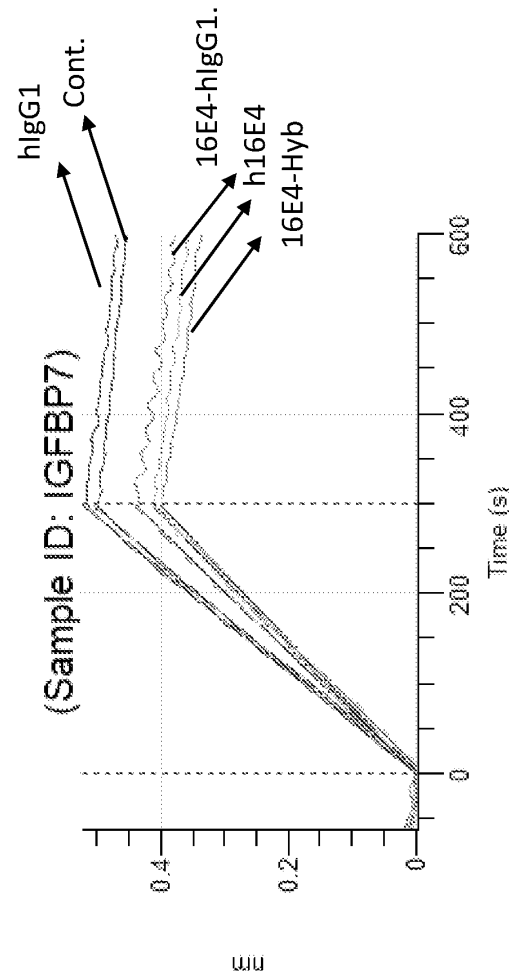


FIG. 49

HUVEC tube formation assay

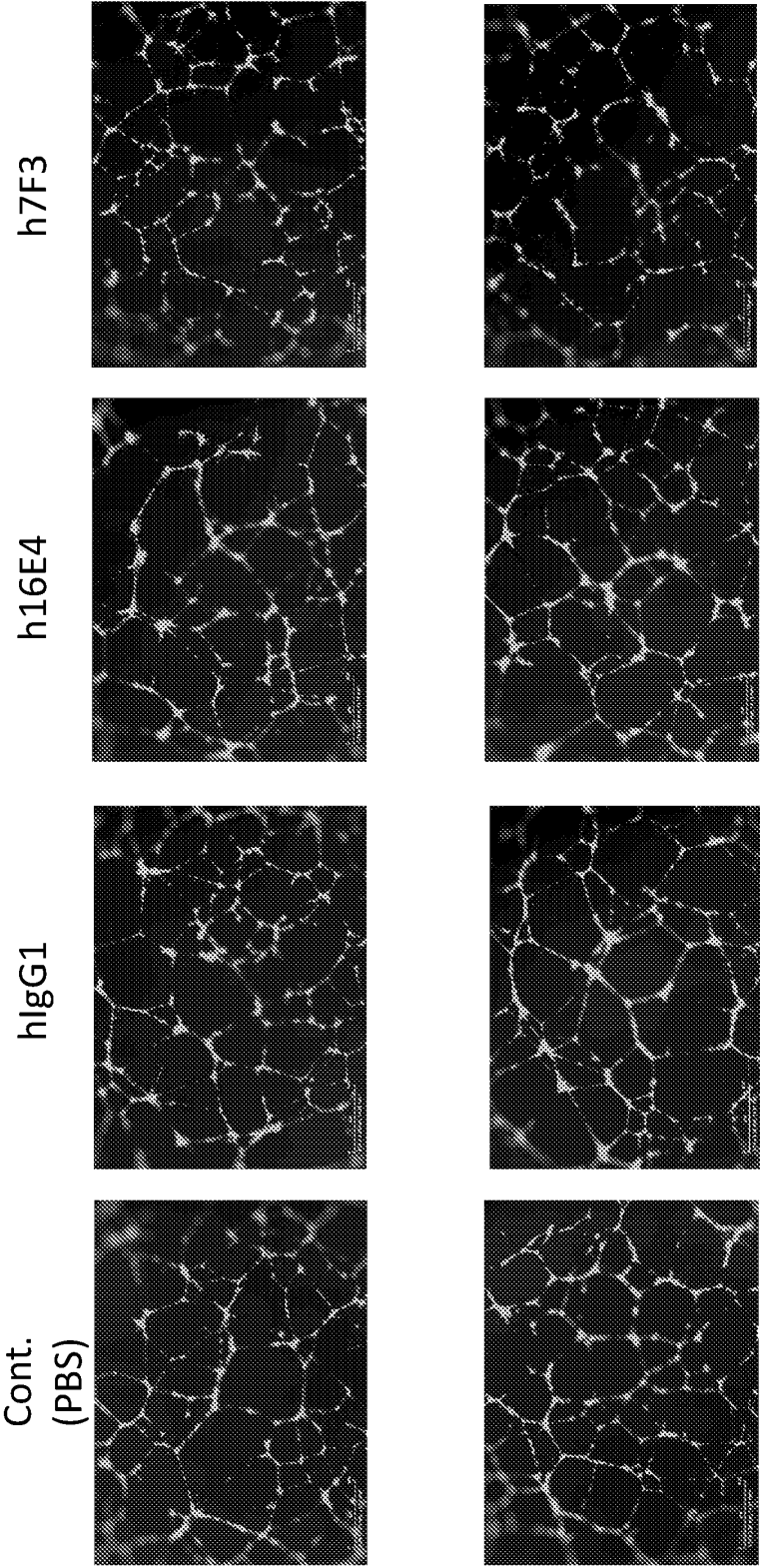


FIG. 50

HUVEC tube formation assay

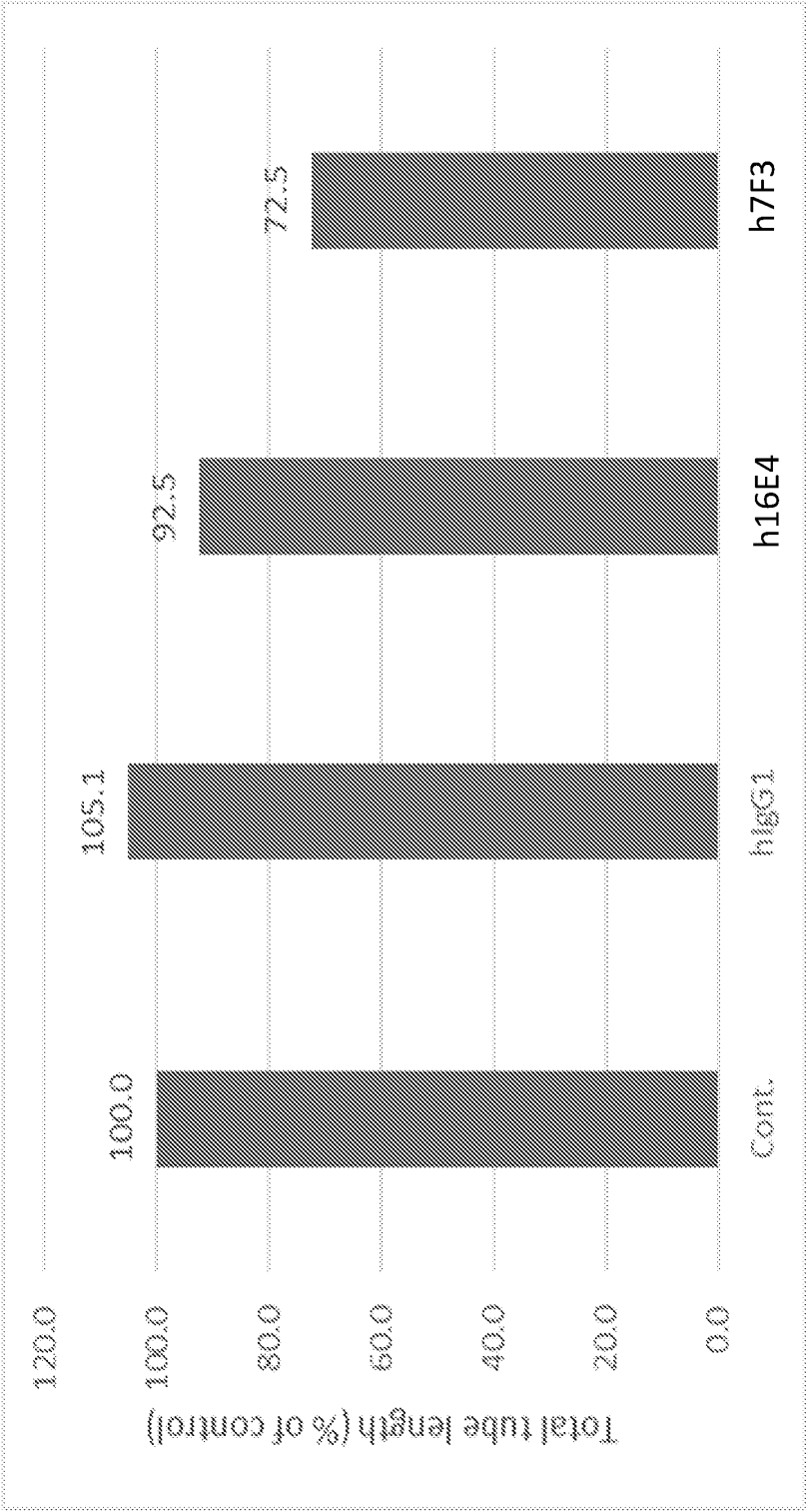


FIG. 51

Summary of properties of 16E4, 7F3, 16A1, and 17B10

Clone Name	Isotype	hCD93 Binding	Cyno Cross	Mouse Cross	Whole cell binding (CHO-hCD93)	Whole cell binding (HEK293-mCD93)	IGFBP7 Blocking (FACS)	MMRN2 Blocking (FACS)	HUVEC Tube inhibition	Tumor animal model
16E4	IgG1	+++	+++	-	+++	-	+	-	+	
7F3	IgG1	+++	+++	-	+++	-	+	+	+	
16A1	IgG1	+++	+++	+++	++	+	-	-	+	+ (B16, KPC)
17B10	IgG1	+++	+++	+++	+++	+	-	-	+	+ (B16)