

FIG. 1

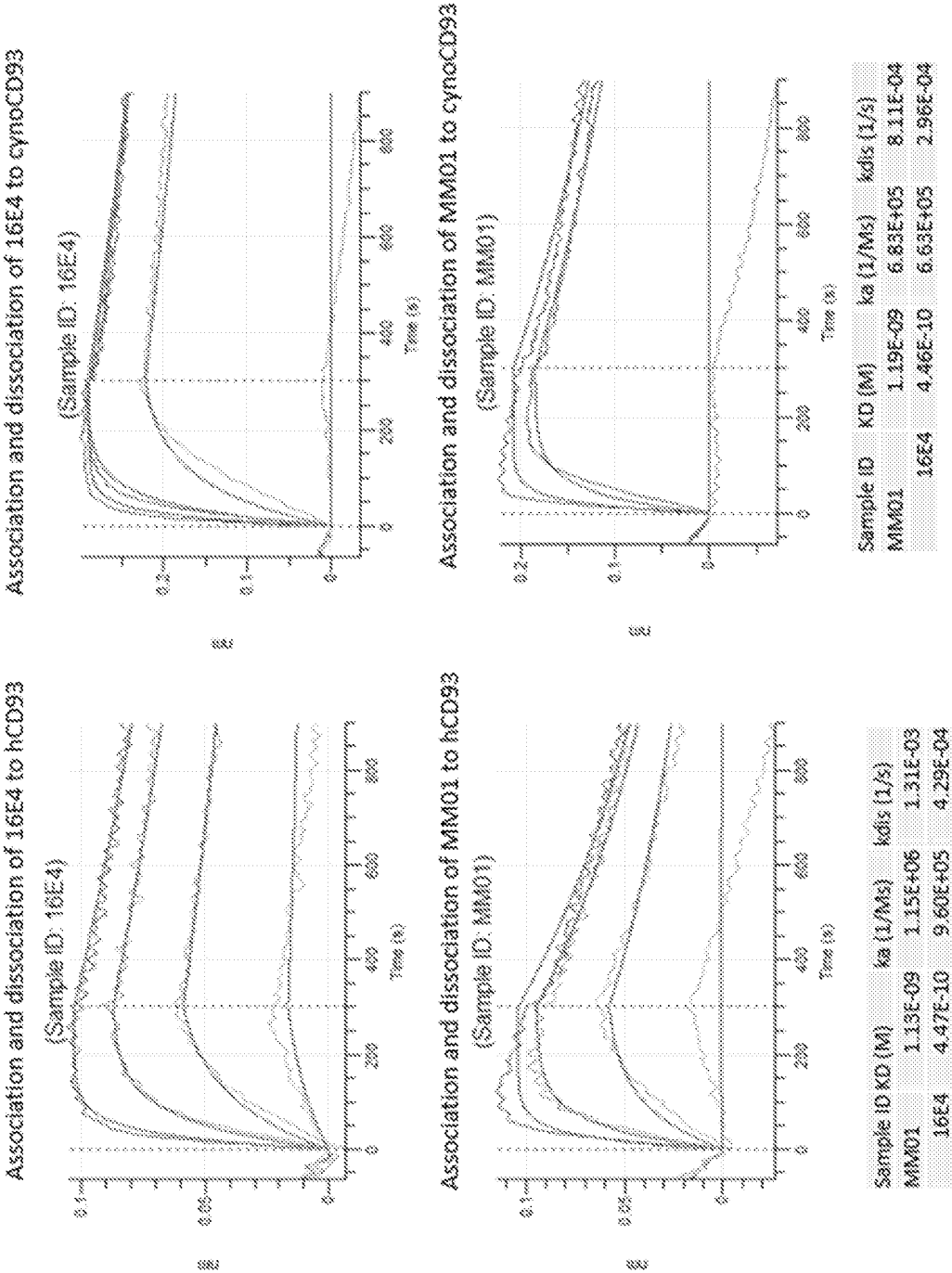


FIG. 2

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

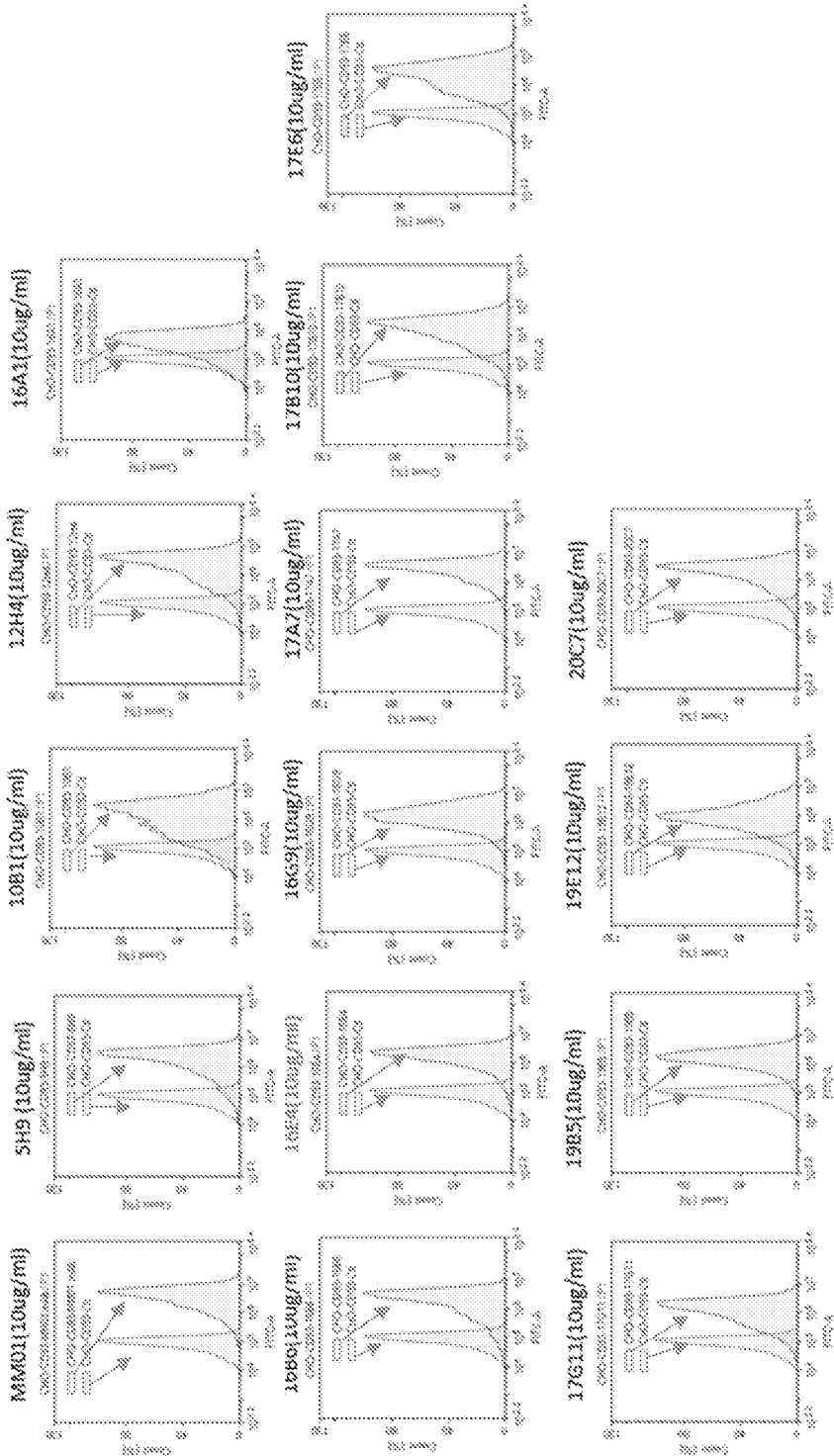


FIG. 3A

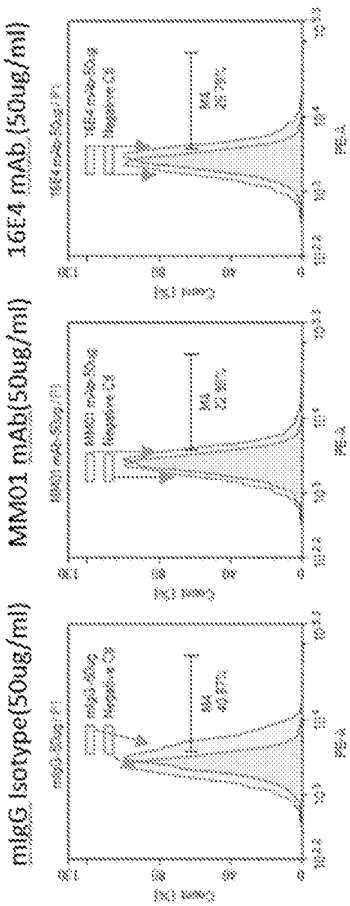


FIG. 3B

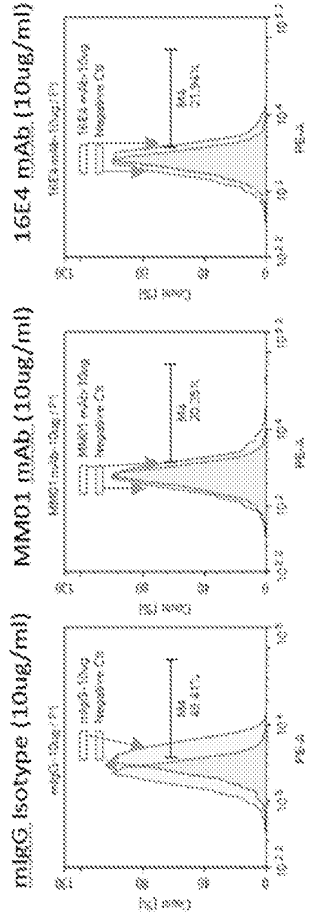


FIG. 3C

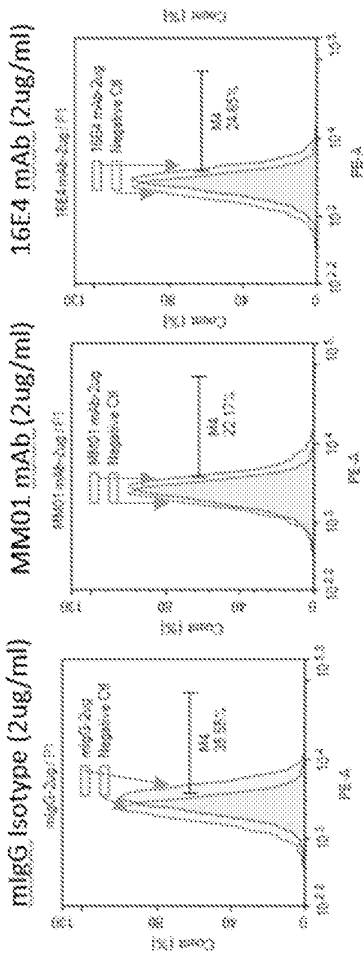


FIG. 3D

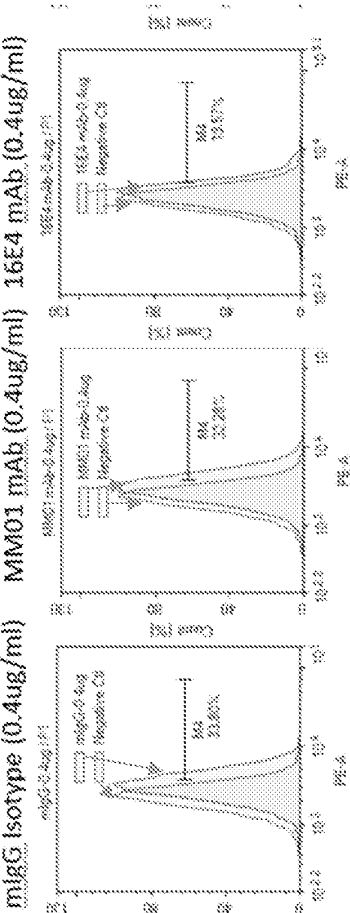


FIG. 4A

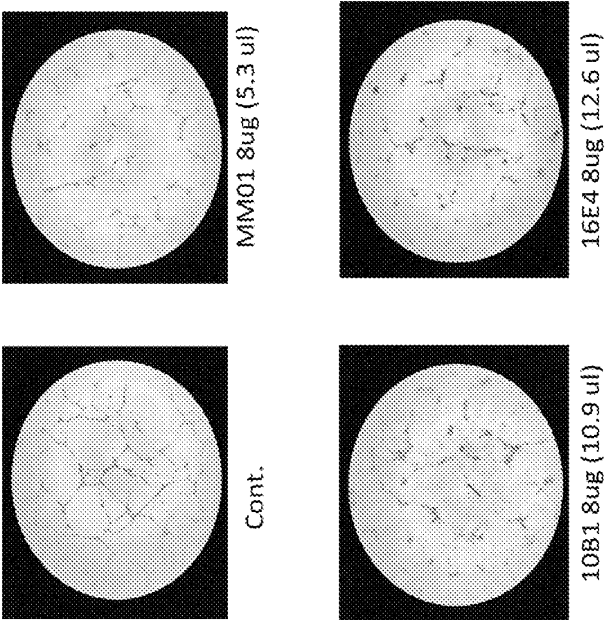


FIG. 4B

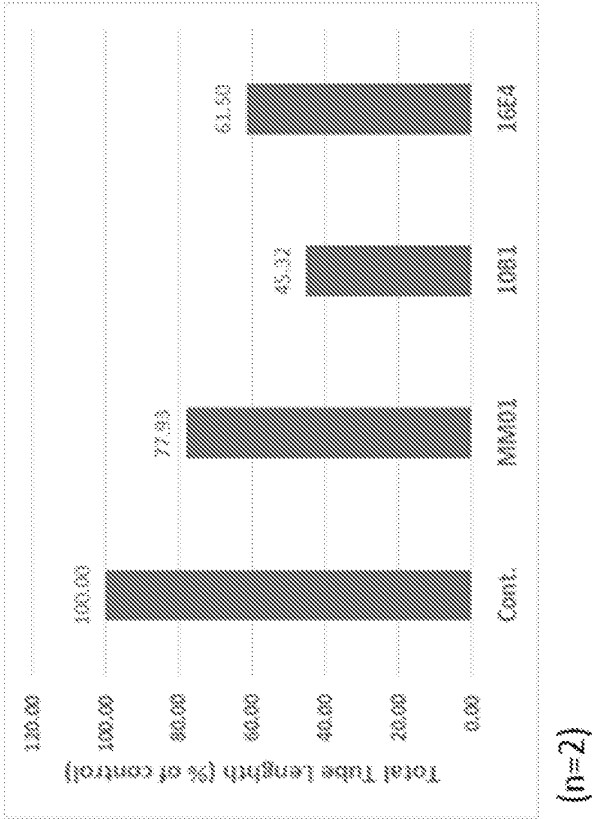


FIG. 4C
HUVEC (invitrogen; 2x10⁴cells/well) tube formation -- 18h

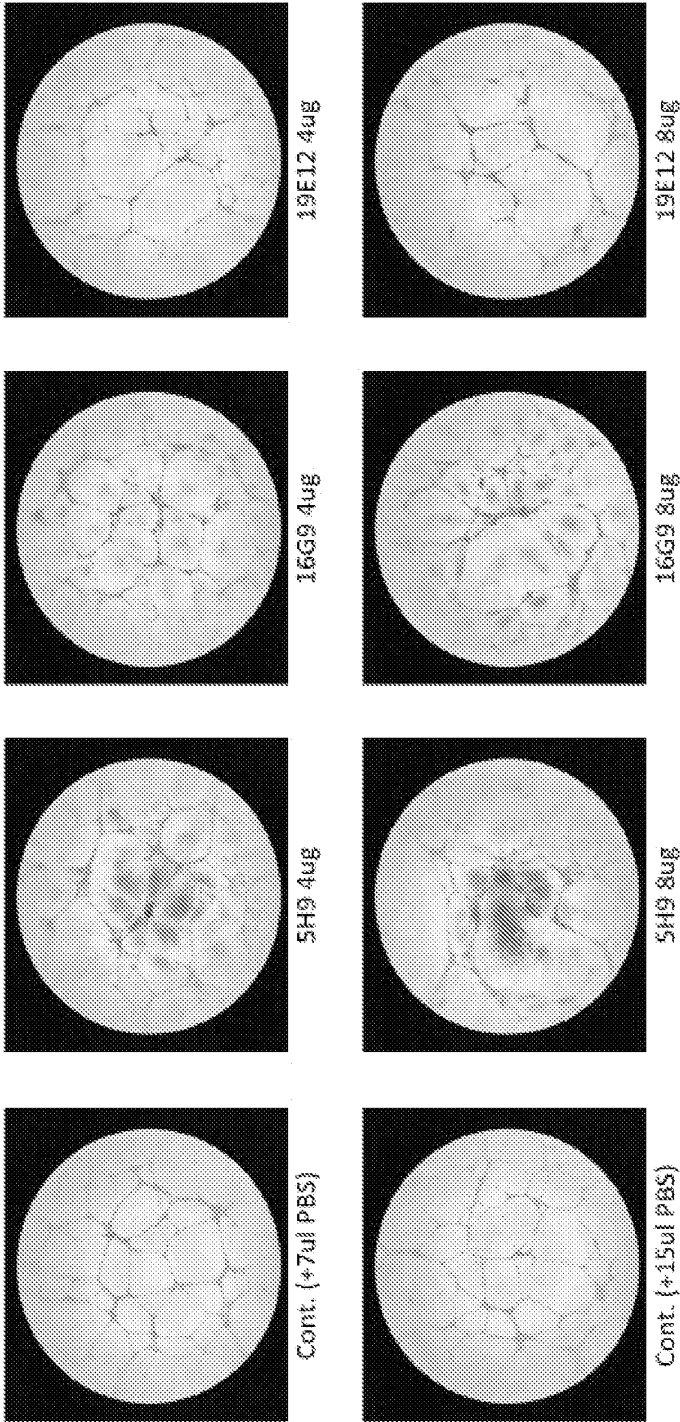


FIG. 4D

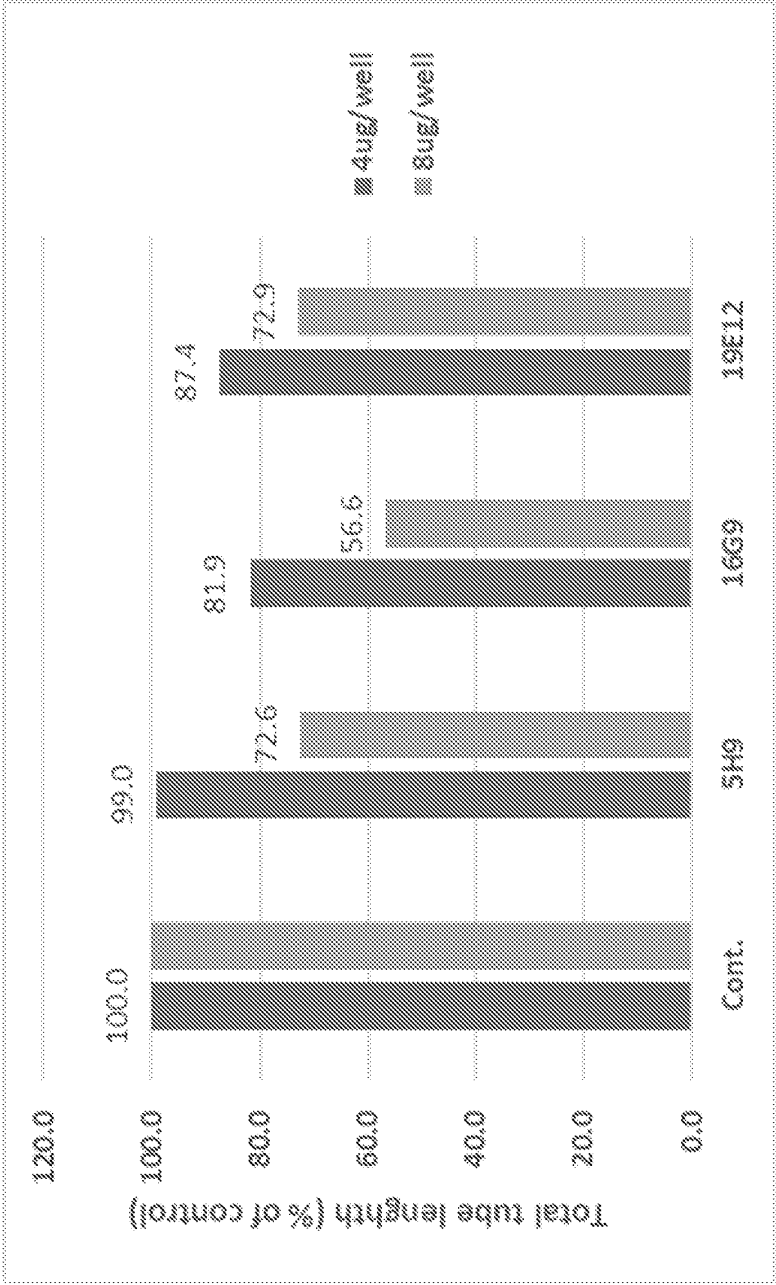


FIG. 4E HUVEC (invitrogen; 2x10⁴cells/well) tube formation – 18h

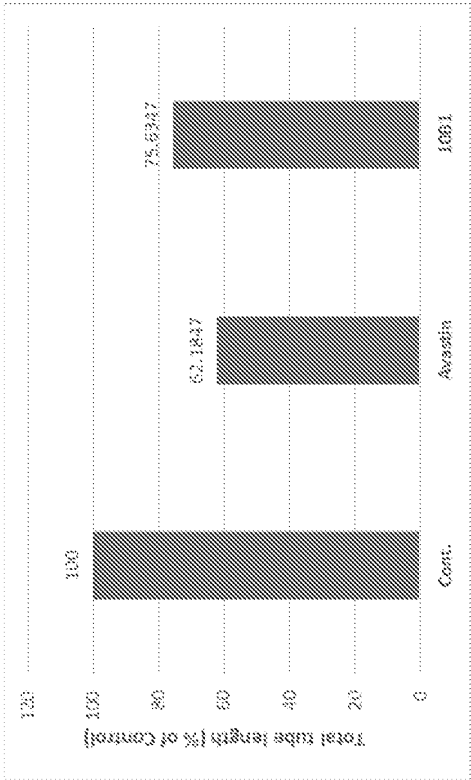


FIG. 4F

FIG. 6A

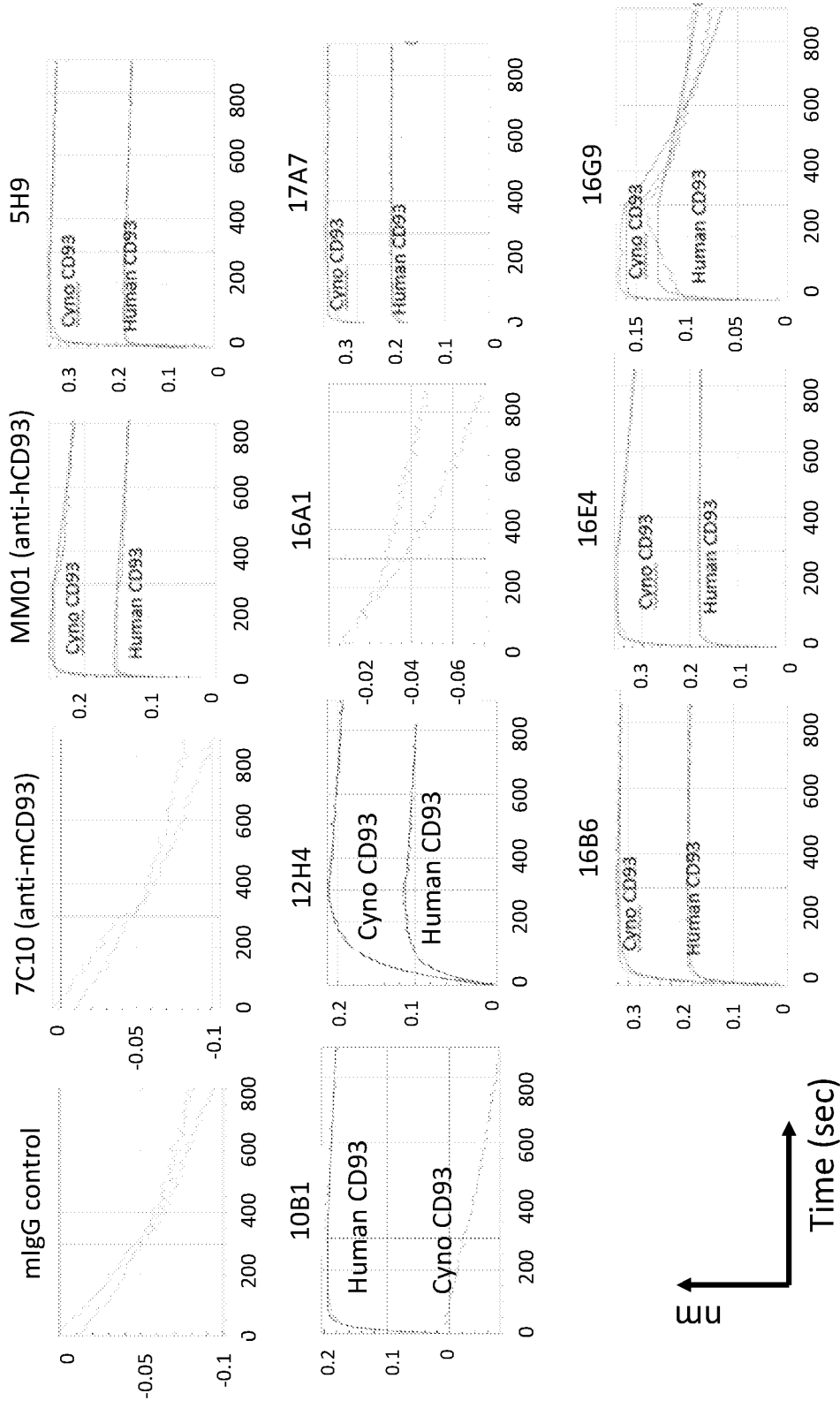


FIG. 6B

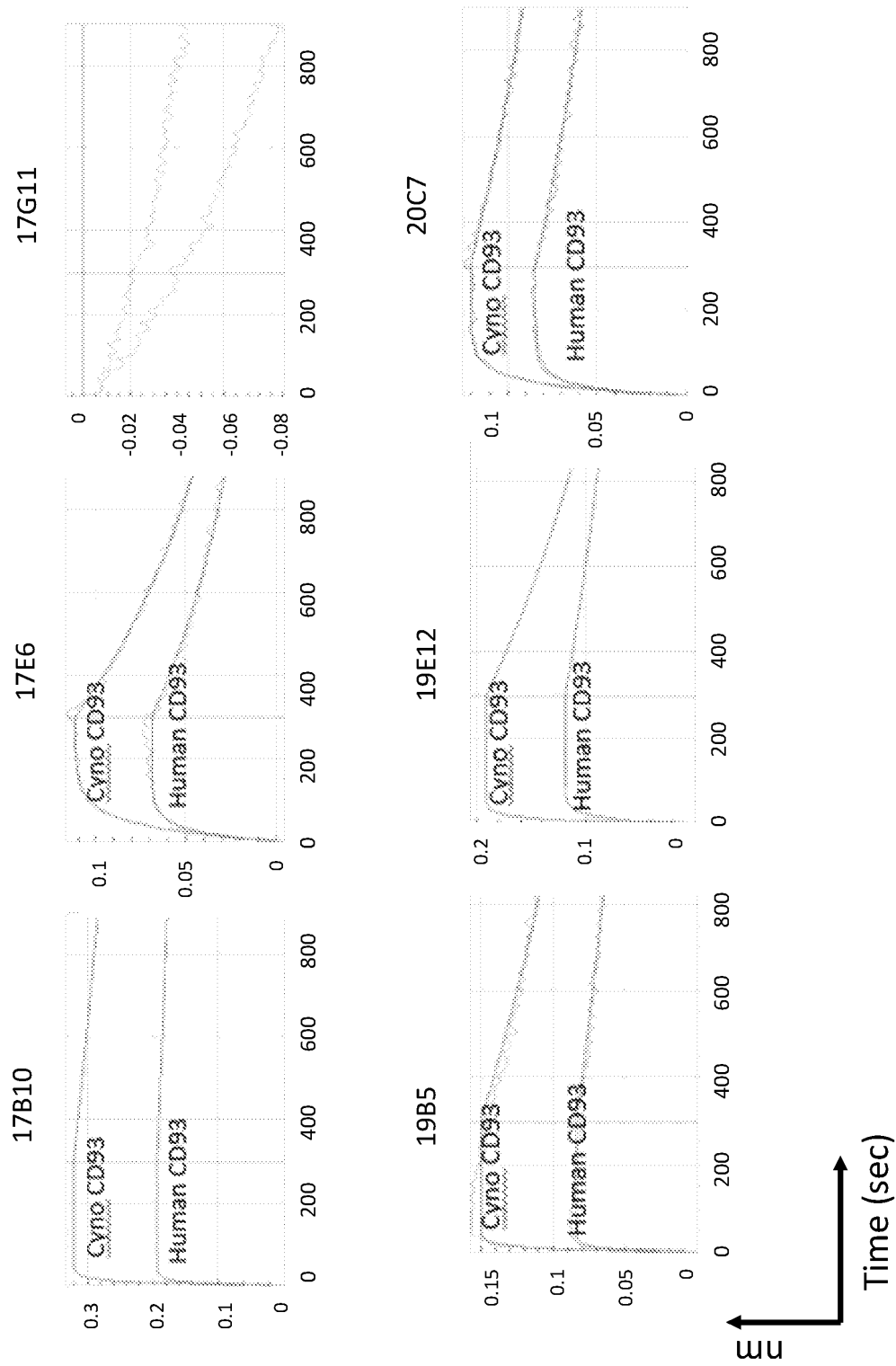


FIG. 7A

	CDRH1	CDRH2
10B1_VH	1 QVQLKQSGPGELVQPSQSLSTICTVSDFLSSSTFGVNWVRQPPGKGLWLGVIWSSQ-GSTDY	
19B5_VH	1 DVNLVESGGGLVFLGGSILKLSCAASGFTFSNYYSWVRQSPENKLEWVATISNNGDSTYY	
16G9_VH	1 EVQLQQSGPELVKPGASVKMSCKASGYTFTDYIMNWVQSSHOKSLEWIGRVNPNNGGKTY	
16A1_VH	1 QVQLQQSDAELVKPGTSVKISCKASGYTFTDHGISHWVKQRPFGLEWIGNISPGNGDIKY	
20C7_VH	1 EVQLQQSGPELVNFGASVKMSCKASGYTFTAYVMNWVKQKPGQGLEWIGYILFPYNDGTEY	
17E6_VH	1 EVQLQQSGPELVKPGASVKMSCKASGYTFTSYVINWVKQKPGQGLEWIGYINPYSDYTQY	
16E4_VH	1 QVQLQQPGAEVLVKPGASVHLSCASGYTFTSYWMNWVKQRPQGLEWIGEDFSASYTYX	
12H4_VH	1 EVQLQQSGPELVKPGASVKVSCASGYTFTDYIISWVKQRPQGLEWIGEIYPCSDDAYY	
5H9_VH	1 QVQLQQSGPELVKPGASVKISCKASGYAFSTYWMNWVKQRPQGLEWIGRIFFPGDGCANY	
17A7_VH	1 QVQLQQSGPELVKPGASVKISCKGSGYAFSTYWMNWVKQRPQGLEWIGRIFFPGDGDYDY	
16B6_VH	1 QVQLQQSGPELVKPGASVKISCKASGYAFSSRWNNWVKQRPQNGLEWIGWIYPCDGDNTY	
17B10_VH	1 QVQLQQSGPELVKPGASVKISCKASGYAFSSYWLNVWVKQRPQGLEWIFGRIYPCDGDYDY	
19E12_VH	1 QVQLQQSGAEVLVKPGASVHLSCASGYTFTDYEMHWVRQTPVHGLEWIGGIDPETCGTAY	
17G11_VH	1 EVQLQQSGTVLARPASVKMSCKASGYTFTSYWMNWVKQRPQGLEWIGAIYPCNSDTSY	
	CDRH3	
10B1_VH	60 NVAFISRLSISKDNSSKQVFFKMNNLQADUTAIYYCAENWRYDGYFYAMDYWGQGTSTVTV	
19B5_VH	61 LDTVEGRFTISRDSAENTLYLQMSSLISEVTAVYYCTEVGT-----GFTYWGQGTILVTV	
16G9_VH	61 NQKFKGKATILTVKSLSTAYMQLNSLTSEDSAVYYCARWRLRP-VLDYGMQYWGQGTSTVTV	
16A1_VH	61 NEKFKGKATILTADKSSSTAYMQLNSLTSEDSAVYFCTT-----YFVDWGRGTILVTV	
20C7_VH	61 NEKFKGKATILTSKSSSTAYMELSSLTSEDSAVYYCAERTDGN-P-YTMDYWGQGTSTVTV	
17E6_VH	61 NEKFKGKATILTSKSSSTAYMELSSLTSEDSAVYSCARRADGN-P-YAMDYWGQGTSTVTV	
16E4_VH	61 NQKFKGKATILTVKSSSTAYMQLNSLTSEDSAVYYCARSV-YY-GNKYFDVWGAGTITVTV	
12H4_VH	60 NEKFKGKATILTADKSSSTAYMQLNSLTSEDSAVYFCTEETTA-----TAYWGQGTILVTV	
5H9_VH	61 NGKFKGKATILTADKSSSTAYMQLNSLTSEDSAVYFCTRTGAAY-DFDPPFPYWGQGTILVTV	
17A7_VH	61 DGKFKGKATILTADKSSSTAYMQLNSLTSEDSAVYFCARTGAAY-EFDPPFPYWGQGTILVTV	
16B6_VH	61 NGKFKGKATILTADKSSSTAYMQLNSLTSEDSAAVFCARSA-TL-PYWFYDVWGAGTITVTV	
17B10_VH	61 NGKFKGKATILTADKSSSTAYMQLNSLTSEDSAVYFCVRGD-----GYWAMDYWGQGTSTVTV	
19E12_VH	61 NQKFKGKATILTADKSSSTAYMELSSLTSEDSAVYYCTRG-----AWFAYWGQGTILVTV	
17G11_VH	61 NQKFKGKAKILTAVTSASTAYMELSSLTNEOSAVYYCTRGGFDY-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-ESALTTSPGETVILTCRSSTGAVTTS---NSANWVQEKPDHLEFGIIGGTNNR	
19B5_VL	1 DIVLTQSPATLSVTPGDSDVLSCKRASQSI-----NNYLHWYQQRSHESPRLLIKFASQS	
5H9_VL	1 DIVMTQAAAFSNEVTLGTSASISCSSSKSLLSN-GVTYLYWYLRPPGQSPQLLIYRMSNL	
17A7_VL	1 DIVMTQAAAFSNEVTLGTSASISCSSTKSLLSN-GITYLYWYLRPPGQSPQLLIYRMSNL	
17B10_VL	1 DIVMTQAAAFSNEVTLGTSASISCRFSKSLLSN-GITYLYWYLRPPGQSPQLLIYQMSNL	
16A1_VL	1 DIVMTQSPSSLAMSLGQVIMSKSSQSLNSNNQKNCCLAWYQKPKQSPRLIYFACR	
17G11_VL	1 SIIVMTQTFKFLVSAQDRVTITCKASQSV-----SNDVANVQKPKQSPKLLIYASNR	
10B1_VL	1 DIVMTQSQKFMSTSTGDRVSVTCKASQNV-----GTNVANVQKPKQSPKALIYSASR	
20C7_VL	1 DIVMTQSHKFMSTSVGDRVSTCKASQDV-----STAVANVQKPKQSPKLLIHSASR	
17E6_VL	1 DIVMTQSHKFMSTSVGDRVSTCKASQDV-----STAVVWYQKPKQSPKLLIYSASR	
16B6_VL	1 DIKMTQSPSSMYASLGERTITCKASQDIK-----SYLSWYQKPKWSPKTLIYYATNL	
12H4_VL	1 QIVLTQSPFAIMSASPGKVTITCSASSV-----SLIYWYQKPKGTSPKLIWYSTNL	
16E4_VL	1 DIVLTQSPASLAVSLQQRATISCKASQSVQYAG--DSYMNWYQKPKQPPKLLIYASNL	
16G9_VL	1 DIVLTQSPASLAVSLQQRATISCRASQSVSTSS--ISYMHWYQKPKQPPKLLIKYASNL	
	CDRL3	
19E12_VL	57 AFGVFAFSSSLIGDKAALTITGAQTEDEAIYFCALWYNNHFVFGGCTKLTVL	
19B5_VL	55 ISDIPSRFSGSGSGTDEFTLSINSIETEDFGMYFCQQSNSWPLTFGAGTKLEIK	
5H9_VL	60 ASGVPRFSGSGSGTDEFTLRISREVEAEDVGIIYCAQMLERPTTFGSGTKLEIK	
17A7_VL	60 ASGVPRFSGSGSGTDEFTLRISREVEAEDVGIIYCAQMLERPTTFGSGTKLEIK	
17B10_VL	60 ASGVPRFSGSGSGTDEFTLRISREVEAEDVGIIYCAQMLELPWTFGGGTKLEIK	
16A1_VL	61 ESGVPRFISGSGSGTDEFTLTSSVQAEDLAYYFCQQHCNTFTLTFGAGTKLEIK	
17G11_VL	55 YTGVPDRFTGSGSGTDEFTTISTVQAEDLAVYFCQQDYS-SYTFGGGTKLEIK	
10B1_VL	55 FICVPRFTGSGSGTDEFTLTITNVQSEDLAEYFCQQYNRNPTTFGSGTKLEIK	
20C7_VL	55 YTGVPDRFTGSGSGTDEFTTISVQAEDLAVYFCQQHYSTPTTFGSGTKLEIK	
17E6_VL	55 YTGVPDRFTGSGSGTDEFTTITSVQAEDLAVYFCQQHYSTPTTFGSGTKLEIK	
16B6_VL	55 ADGVPSRFSGSGSQSYSLTISSLGSDDTATYYCLQHVESFWTFGGGCTKLEIK	
12H4_VL	54 ASGVPARFSGSGSGTSYSISLTISRMEAEDAATYYCQQRSGYPPTFGGCTKLEIK	
16E4_VL	59 ESGIPARFSGSGSGTDEFTLNHPVEEEDAATYYCQQTNEDEPTTFGGGCTKLEIK	
16G9_VL	59 ESGVPARFSGSGSGTDEFTLNHPVEEEDAATYYCQHSWEIPTTFGSGTKLEIK	

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FIG. 8A

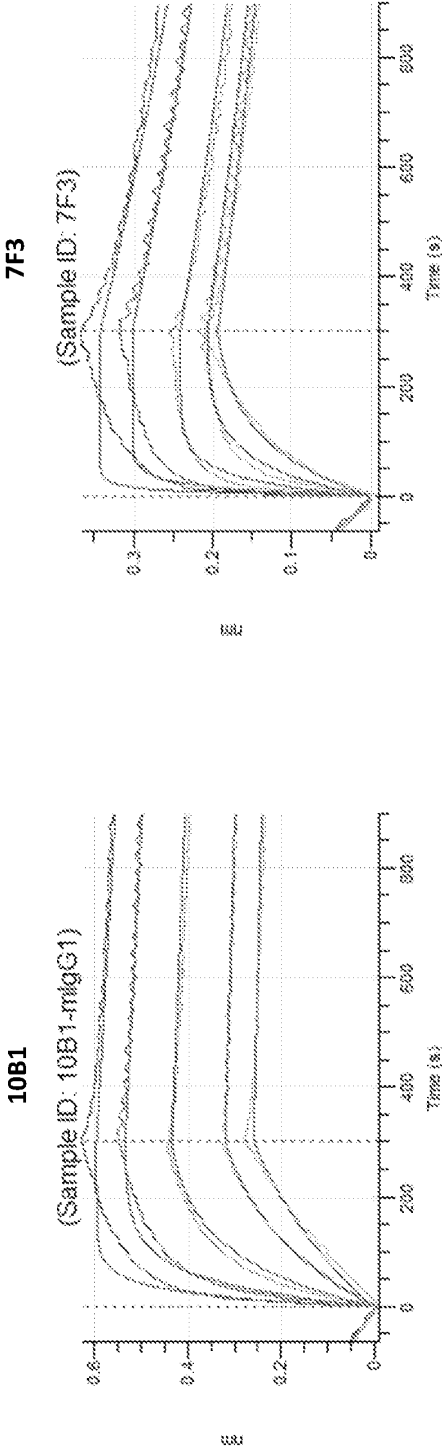
	CDRH1	CDRH2
10B1_VH	1 QVQLKQSGPGLVQPSSQSLITCTVSDFLSSFGVNWVRQPPKQGLEWLGVIWSSG-GSTIDY	
19B5_VH	1 DYNLVESSGGGLVKLGSSLKLSCAASGFTFSNYYSWVRQSPKRLLEWVATISNNGDSTYY	
16G9_VH	1 EVQLQQSGPELVKPGASVKMSCKASGYTFTDYMMNWVKQSHGKSLEWIGRVNFPNNQGTKY	
16A1_VH	1 QVQLQQSDAELVKPGTSTVKISCKASGYTFTDHGIHWVKQRPERGLEWIGNISPGNGDIKY	
20C7_VH	1 EVQLQQSGPELVNPGASVHMSCKASGYTFTAYVMHWVKQKPGQGLEWIGYIFPYNDGTET	
17E6_VH	1 EVQLQQSGPELVKPGASVHMSCKASGYTFTSYVHWVKQKPGQGLEWIGYINPYSDTQY	
16E4_VH	1 QVQLQQPGAEELVKPGASVKLSCKASGYTFTSYWMHWVKQRPQGLEWIGELDPSASYYTY	
12H4_VH	1 EVQLQQSGPELVKPGASVHVSCKASGYTFTDYIHWVKQRPQGLEWIGELIYPSSDDAYY	
5H9_VH	1 QVQLQQSGPDLEKPGASVKISCKASGYAFSTSYWMHWVKQRPQGLEWIGRIFFPGDSDANY	
17A7_VH	1 QVQLQQSGPELVKPGASVKISCKGSGYAFSTSYWMHWVKQRPQGLEWIGRIFFPGDSDTDY	
16B6_VH	1 QVQLQQSGPELVKPGASVHISCKASGYAFSKSWMNWVKQRPQGLEWIGWIYPGDSDTNY	
17B10_VH	1 QVQLQQSGPELVKPGASVKISCKASGYAFSSYWLNWVKQRPQGLEWIGRIYFGDSDTDY	
19E12_VH	1 QVQLQQSGAEELVRPGASVKLSCKASGYTFTDYEMHWVKQTFVHGLEWIGGIDPETSGGTAY	
17G11_VH	1 EVQLQQSGTVLARPGASVHMSCKASGYTFTSYWMHWVKQRPQGLEWIGATYPGNSDTSY	
	CDRH3	
10B1_VH	60 EVAFISRLSISKMSKSKQVFFKMNNLQADDTAIYYCARNWRYDGYFYAMDYWCQGSTSVTV	
19B5_VH	61 LDYVKGRFTISRDSAEINTLYLQMSLSLSEDTAVYYCTFVGT-----GFTYWCQSTLVTV	
16G9_VH	61 NQKFKGKATLTVKSSLSSTAYMQLNSLTSEDSAVYYCARNWLRP-VDYGMGYWCQGSTSVTV	
16A1_VH	61 NEKFKGKATLTAUKSSSTVYMQVNCSTSEDSAVYFCTT-----YFVDWGRGTLVTV	
20C7_VH	61 NEKFKGKATLTSKSSSTAYMELSSLTSEDSAVYYCARRTDGN-P-YTMDYWCQGSTSVTV	
17E6_VH	61 NEKFKGKATLTSKSSSTAYMELSSLTSEDSAVYSCARRADGN-P-YAMDYWCQGSTSVTV	
16E4_VH	61 NQKFKGKATLTVKSSSTAYMQLSSLTSEDSAVYYCARSV-YY-GNKYFDVWCAGITVTV	
12H4_VH	60 NEKFKGKATLTAUKSSSTAYMQLSSLTSEDSAVYFUTRETTA-----TAYWCQSTLVTV	
5H9_VH	61 NGKFKGKATLTADKSSSTAYMQLSSLTSEDSAVYFCTRTGAAY-DFDFFPYWCQGSTLVTV	
17A7_VH	61 DGRFKGKATLTAUKSSNTAYMQLSSLTSEDSAVYFCARTGAAY-EFDFFPYWCQGSTLVTV	
16B6_VH	61 NGKFKGKATLTADKSSSTAYMQLSSLTSEDSAAVFCANSA-TL-PYWFYDVCAGSTTVTV	
17B10_VH	61 NGKFKGKATLTADKSSSTAYMQLRSLTSEDSAVYFCVRGD-----GYWAMGYWCQGSTSVTV	
19E12_VH	61 NQKFKGKATLTAUKSSSTAYMELRSLTSEDSAVYYCTRG-----AWFAYWCQGSTLVTV	
17G11_VH	61 HQKFKGKAKLTAVTCASTAYMELSSLTNEDSAVYYCTRGGFYD-SNYWEAYWCQGSTLVTV	
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 QAVYTQ-ESALTTSPGETVTTLTCRSSTGAVTTS---NSANWVQENFDHLFTGLIGGTNNR	
19B5_VL	1 DIVLTQSPFATLSVTPGDSVSLSCFASQSI-----NNYLHWYQQRSHESPELLIKFASQS	
5H9_VL	1 DIVMTQAAFENPVTLTGTSASISCSSEKSLLSN-GVTYLYWYLQRPQGSPQLLIYRMSNL	
17A7_VL	1 DIVMTQAAFENPVTLTGTSASISCSSTKSLLSHSS-GITYLYWYLQRPQGSPQLLIYRMSNL	
17B10_VL	1 DIVMTQAAFENPVTLTGTSASISCFEFSKSLLSN-GITYLYWYLQRPQGSPQLLIYQMSNL	
16A1_VL	1 DIVMTQSPSSSLAMSIGQFVTMSCRSSQCLLNSNNQKNCLAWYQQKPGQSPRLLIYFACTR	
17G11_VL	1 SIVMTQTPEKELLVCAQDRVTITCKASQSV-----SNDVAWYQQKPGQSPKLLIYYASNR	
10B1_VL	1 DIVMTQSQKFMSTSTGDAVSVTCKASQNV-----GTNVAWYQQKPGQSPKALIYSASYR	
20C7_VL	1 DIVMTQSHKFMSTSVGDEVSTITCKASQDV-----STAVAWYQQKPGQSPKLLIHSASYR	
17E6_VL	1 DIVMTQSHKFMSTSVGDRVSTITCKASQDV-----STAVVWYQQKPGQSPKLLIYSASYR	
16B6_VL	1 DIKMTQSPSCMYASLGERVTITCKASQDIK-----SYLSWYQQKPGQSPKLLIYYATNL	
12H4_VL	1 QIVLTQSPFALMSASPGEKVTITCSASSSV-----SLIYWFOCKPGTSPKLLIYSTSNL	
16E4_VL	1 DIVLTQSPASLAVSLQSEATISCFASQSVDYAG---DSYMNWYQQKPGQSPKLLIYAASNL	
16G9_VL	1 DIVLTQSPASLAVSLQQRATISCRASQSVSTSS--YSYMHWYQQKPGQSPKLLIKYASNL	
		CDRL3
19E12_VL	57 APGVFARFSGSGSLIGDKAALTITGAQTEDEAIYFCALWYNNHVFPGGGTKLTVL	
19B5_VL	55 ISDIPSRFSGSGSGTDFTLINSIETEDFGMYFCQQSNSWPLTFGAGTKLELE	
5H9_VL	60 ASGVPDFRFGSGSGSGTDFTLRISRVEAEDVGIYYCAQMLERPTFGSGTKLEIK	
17A7_VL	60 ASGVPDFRFGSGSGSGTDFTLRISRVEAEDVGVYYCAQMLERPTFGSGTKLEIK	
17B10_VL	60 ASGVPDFRFGSGSGSGTDFTLRISRVEAEDVGVYYCAQNLLELPWTFPGGGTKLEIK	
16A1_VL	61 ESGVPDFRFIGSGSGSGTDFTLTSSVQAEDLAVYYFCQQHCHNTPLTFGAGTKLELE	
17G11_VL	55 YTGVPDRFTGSGSGTDFTFITSTVQAEDLAVYYFCQQDYS-SYTFGGGTKLEIK	
10B1_VL	55 FIGVPDFRFTGSGSGTDFTLTITNVQSEDLAEYFCQQYNENPITFGSGTKLEIK	
20C7_VL	55 YTGVPDRFTGRGSGTDFTFITSSVQAEDLAVYYCQQHYSTPFTFGSGTKLEIK	
17E6_VL	55 YTGVPDRFTGSGSGTDFTFITTSVQAEDLAVYYCQQHYSTPFTFGSGTKLEIK	
16B6_VL	55 ADGVPSRFSGSGSGQDYSLTISLGSDDTATYYCLQHVESPWTFGGGTKLEIK	
12H4_VL	54 ASGVFARFSGSGSGTYSYSLTISRMEAEDAATYYCQQRSGYPPTFGGGTKLEIK	
16E4_VL	59 ESGIFARFSGSGSGTDFTLNIHPVEEEDAATYYCQQTNEDEPTFGGGTKLEIK	
16G9_VL	59 ESGVFAFSGSGSGTDFTLNIHPVEEEDTATYYCQHSWEIPTFTFGSGTKLEIK	

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

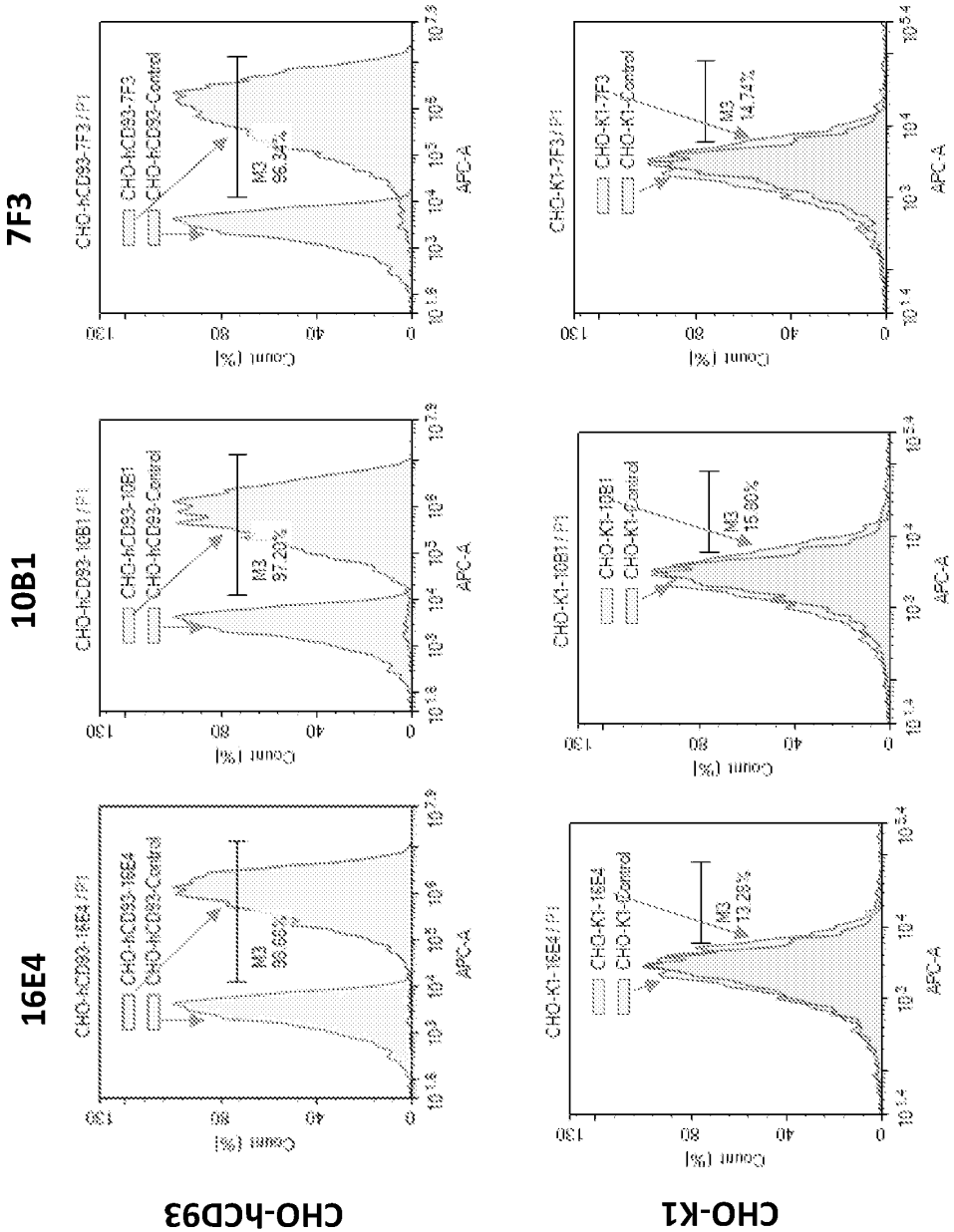


FIG. 11A

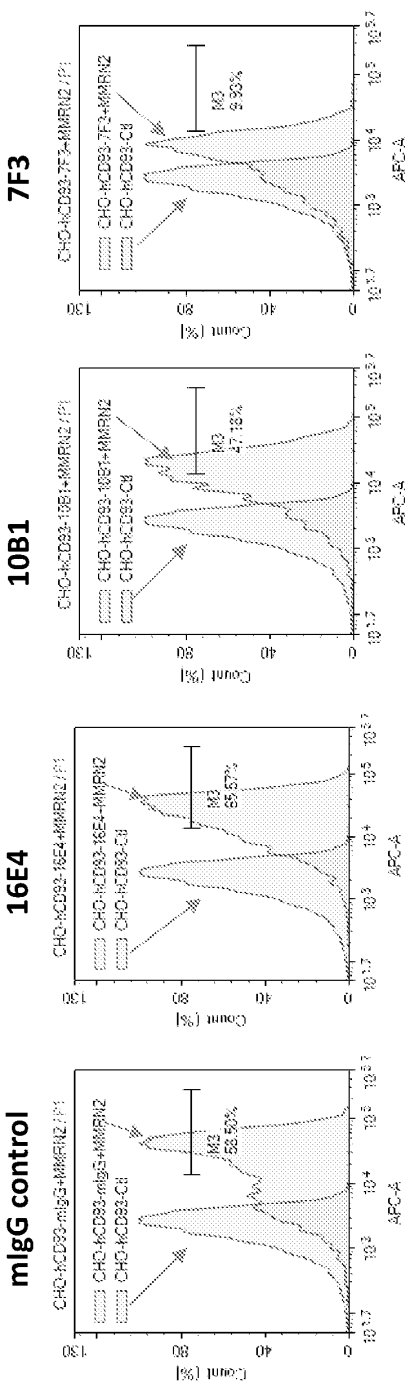


FIG. 11B

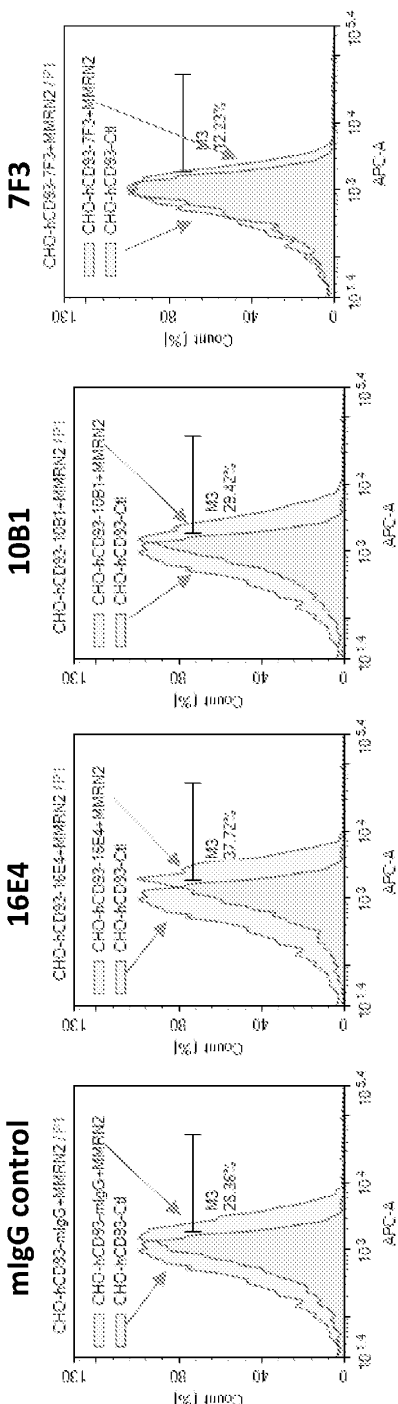
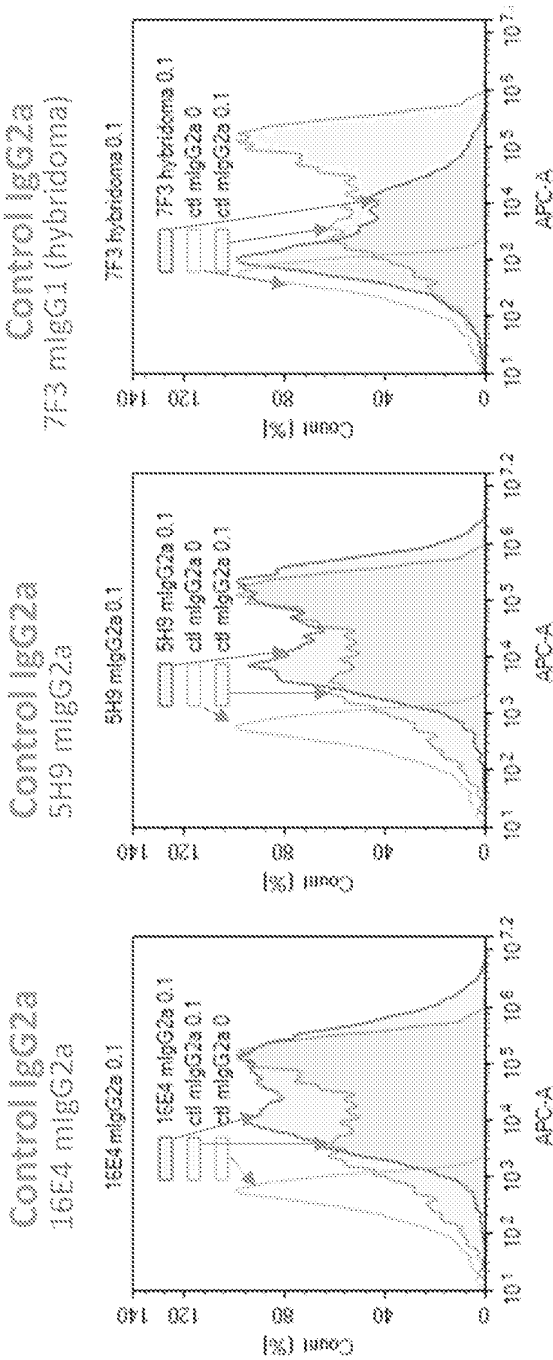


FIG. 12

0.1 ug/ml
MMRN2⁴⁹⁵⁻⁶⁷⁴



0.5 ug/ml
MMRN2⁴⁹⁵⁻⁶⁷⁴

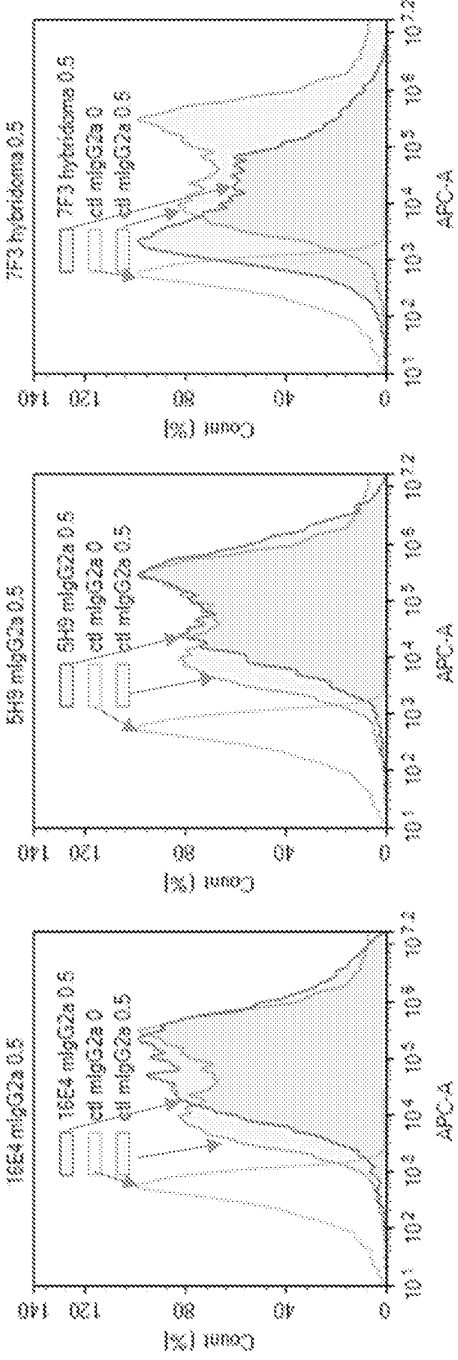


FIG. 13

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

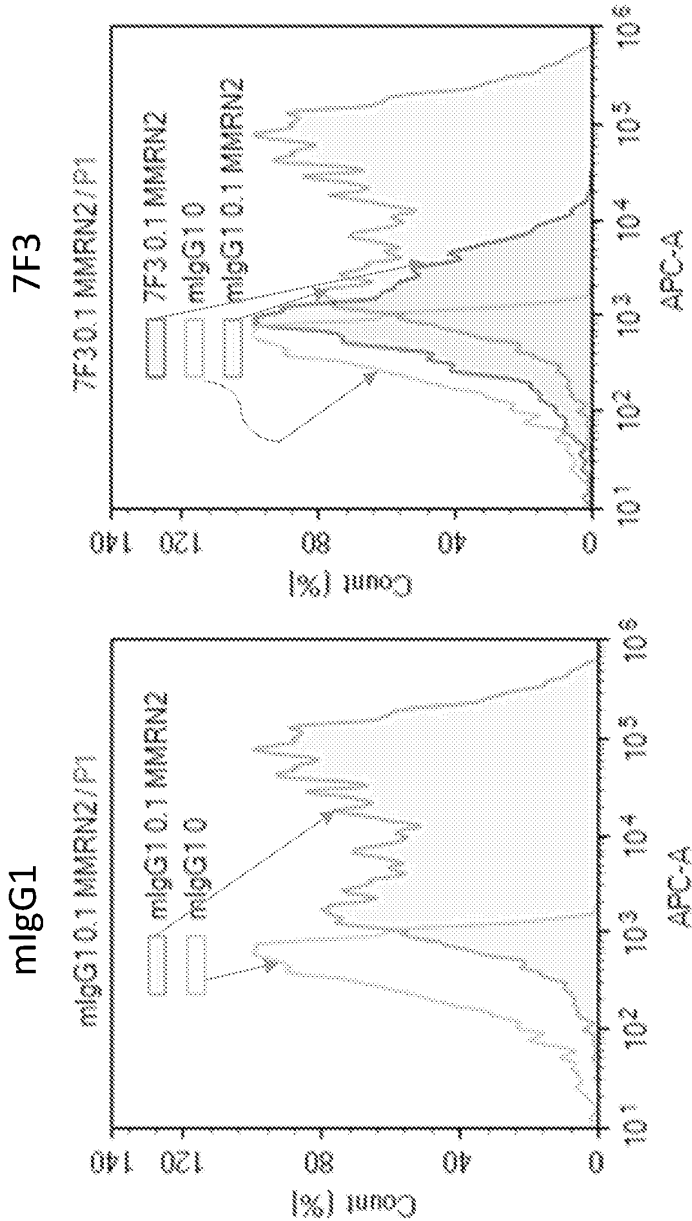


FIG. 14
FACS analysis of the blocking effect of 7F3 antibody on IGFBP7 binding to
CHO-CD93 cells

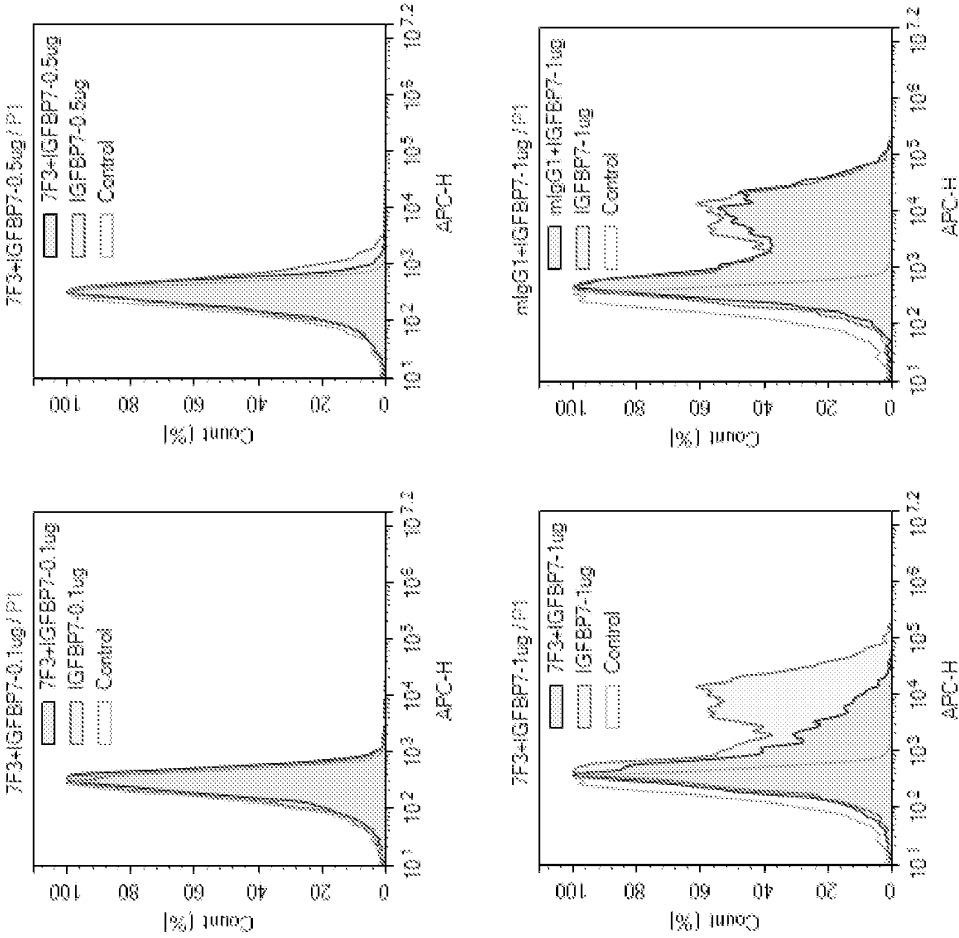


FIG. 15A

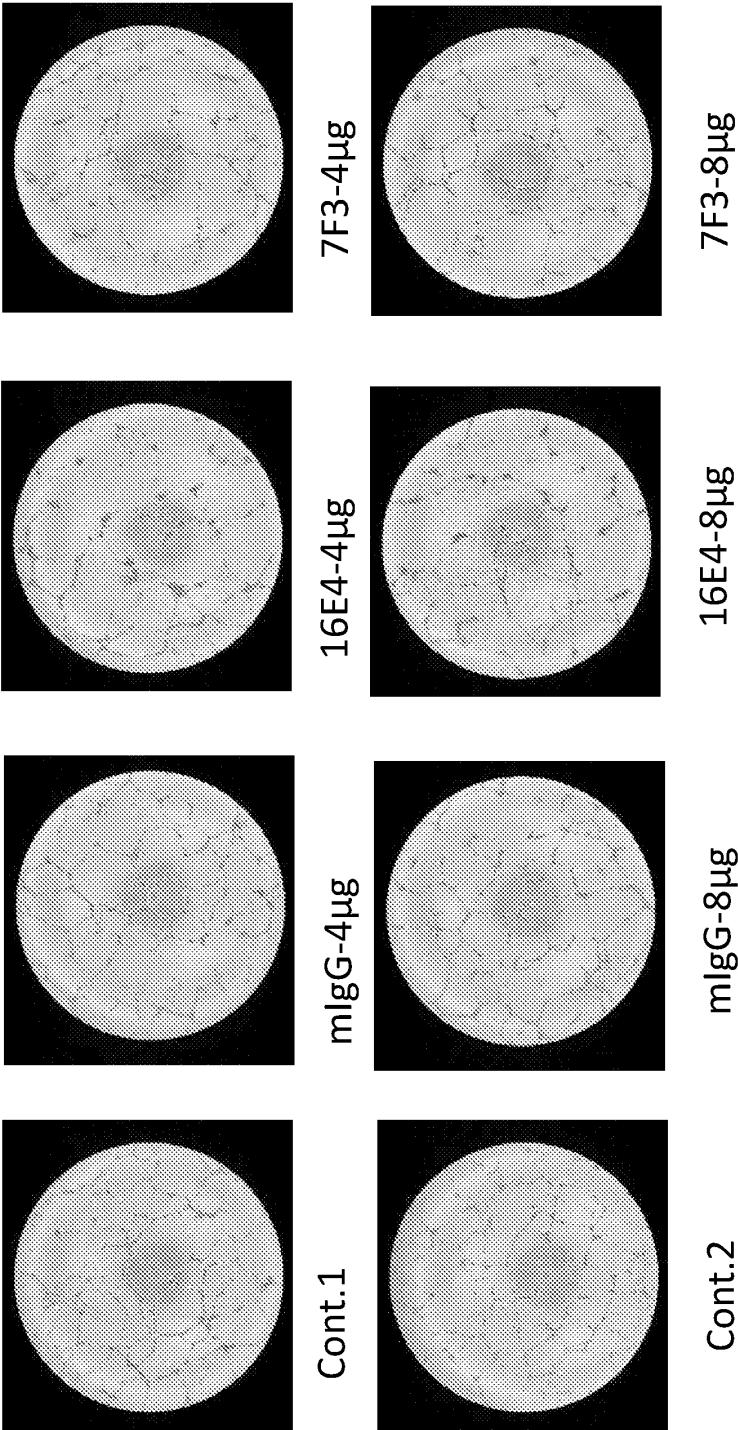


FIG. 15B

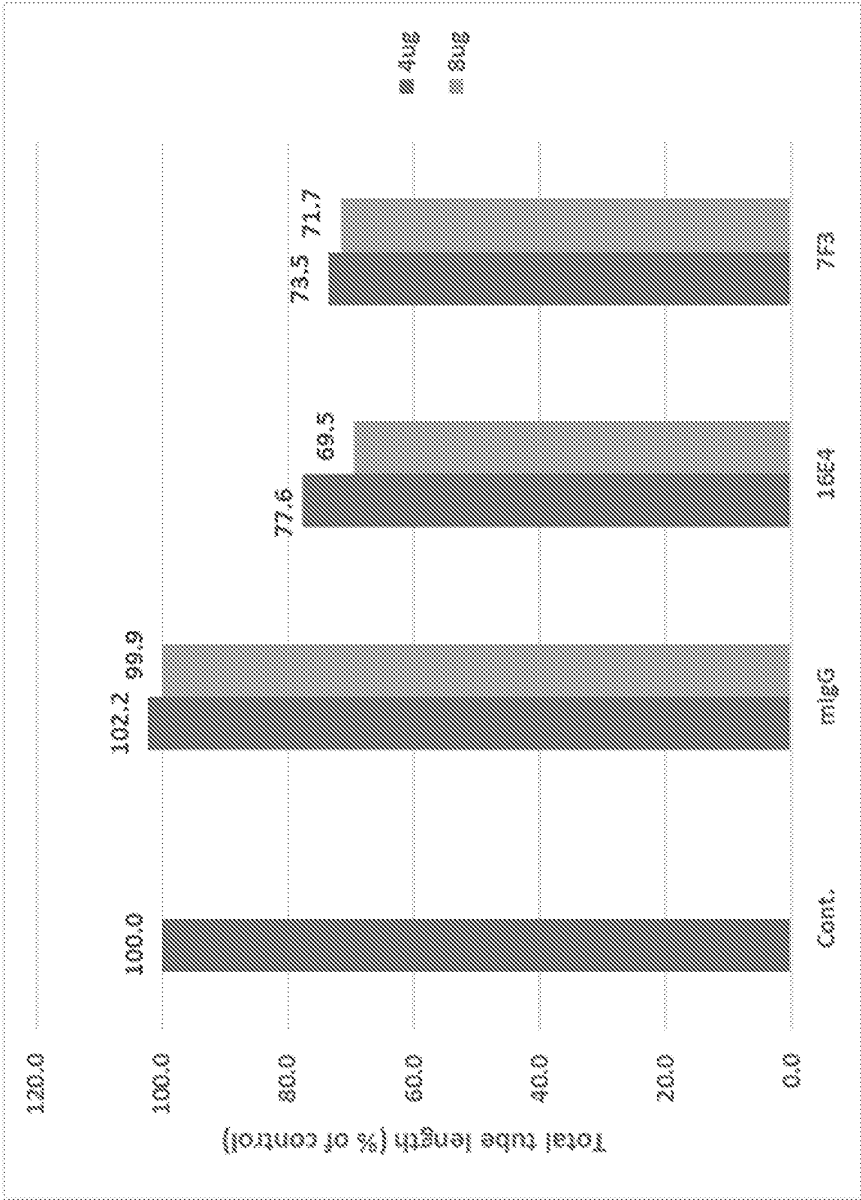


FIG. 16

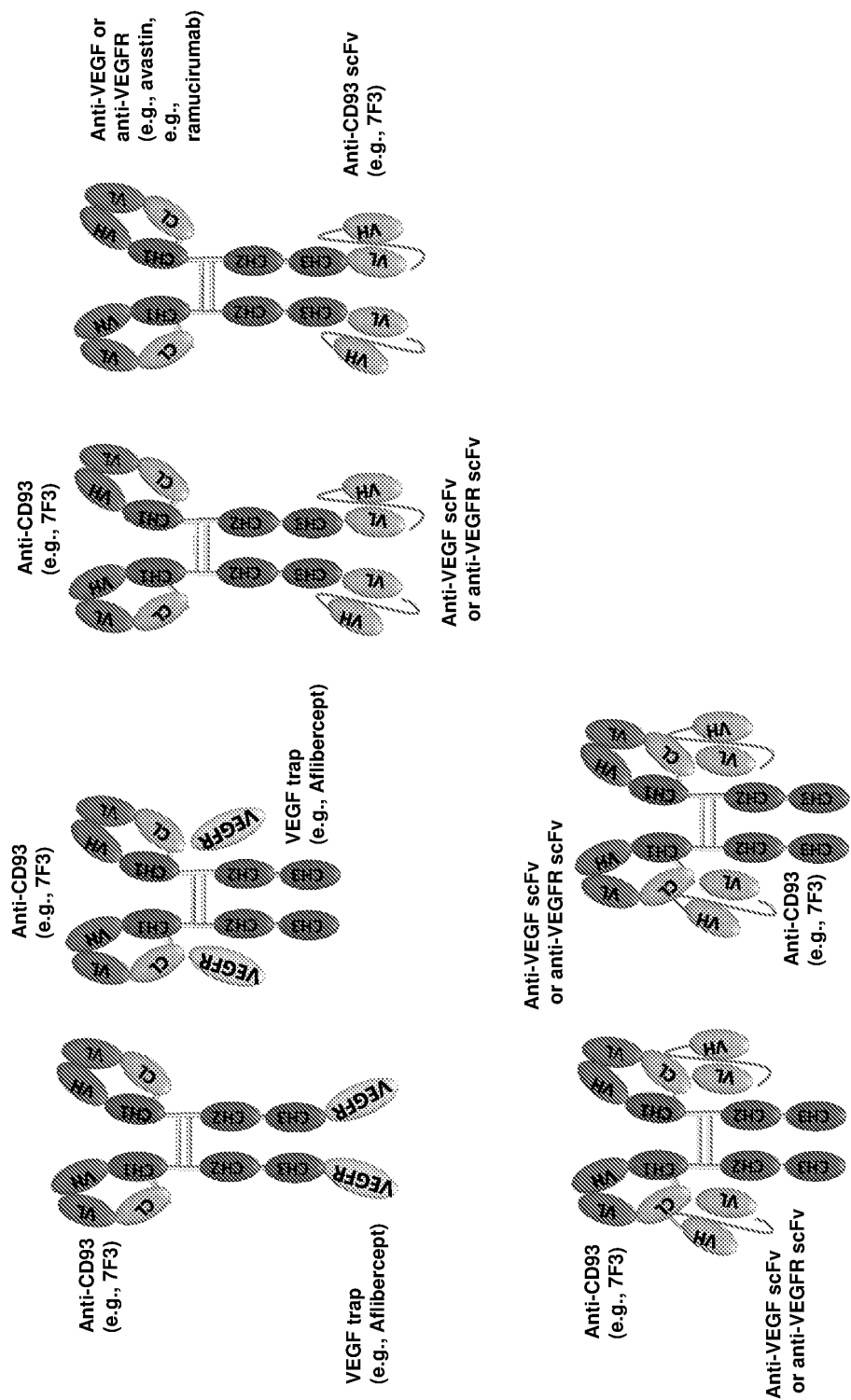


FIG. 17

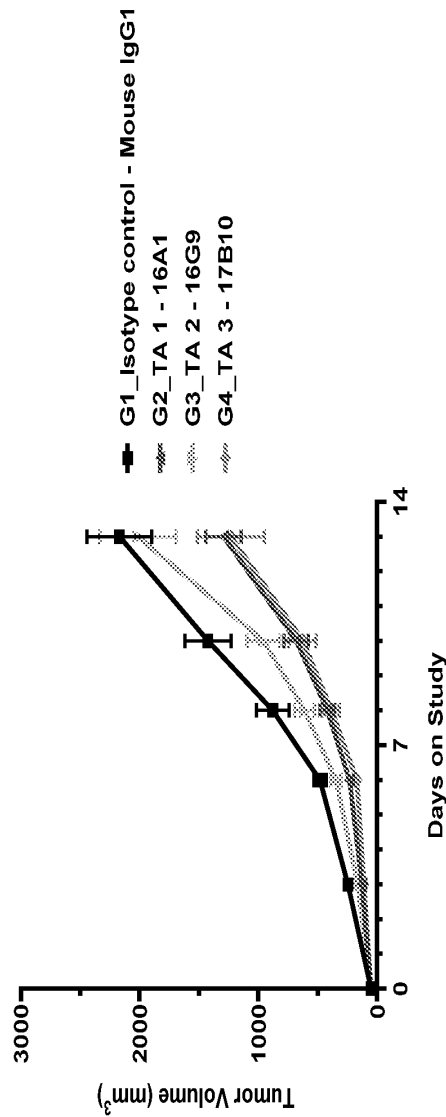


FIG. 18

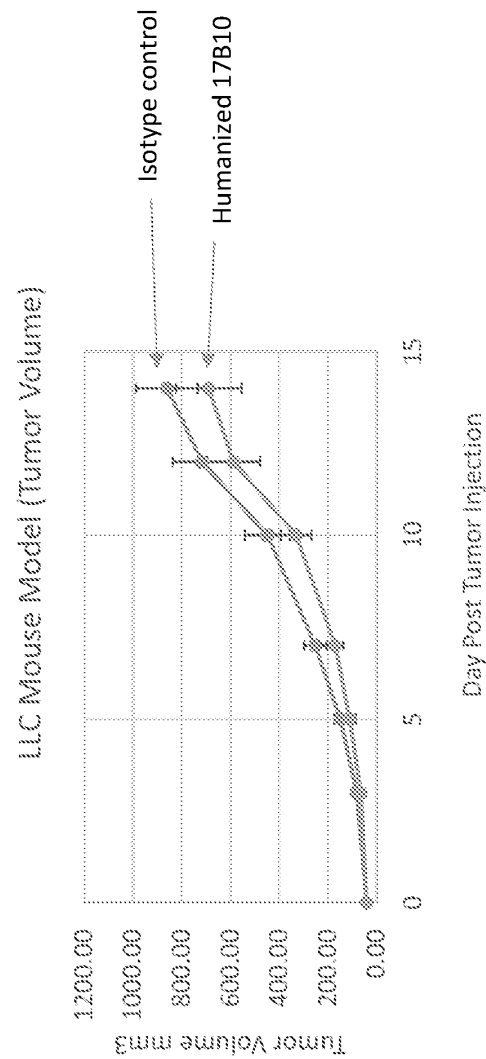


FIG. 19

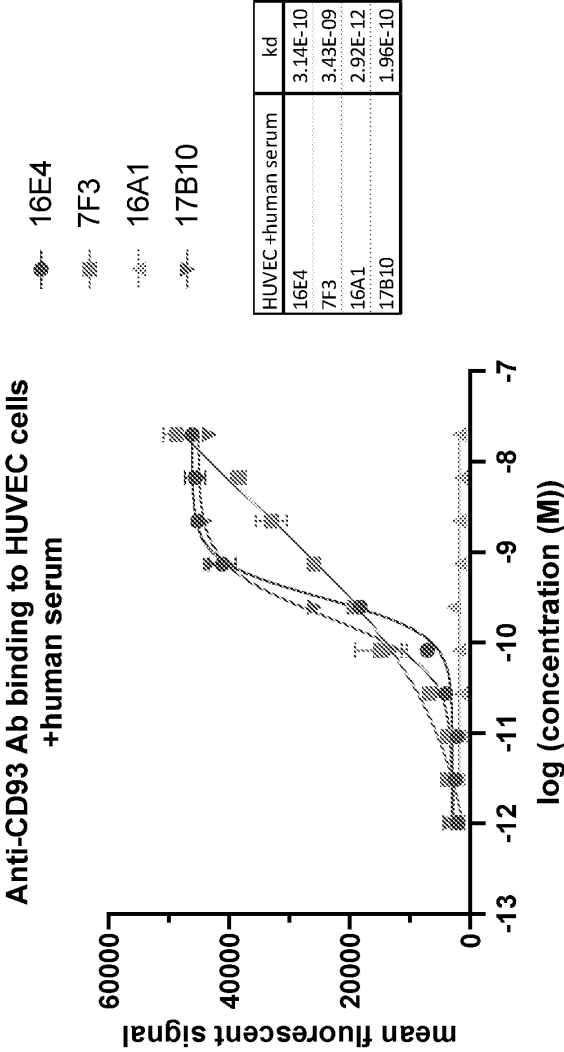


FIG. 20

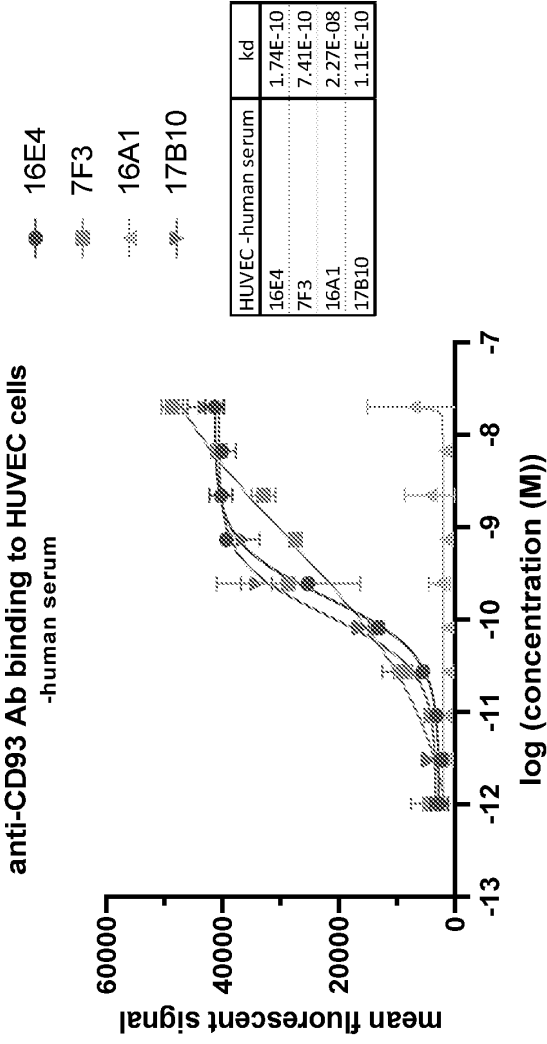


FIG. 21

Anti-CD93 Ab binding curves
humanCD93 CHO cells

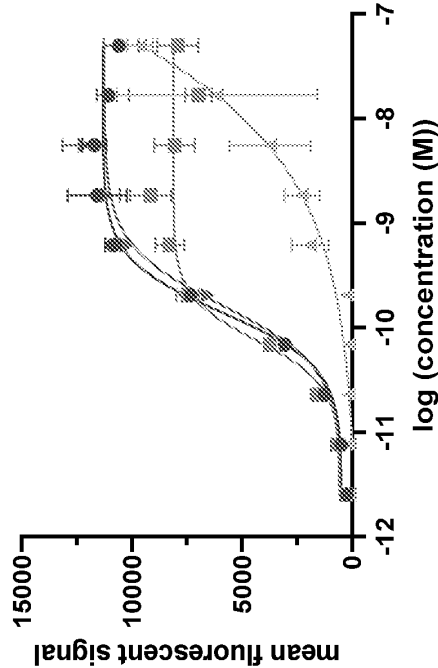
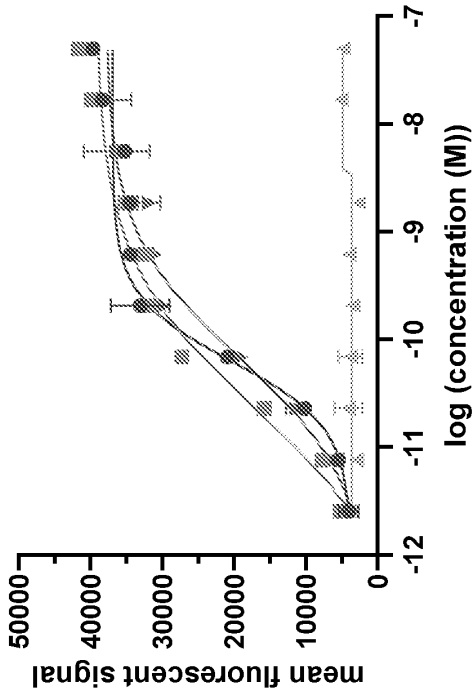


FIG. 22

anti-CD93 Ab binding curves
U937 cells -human serum



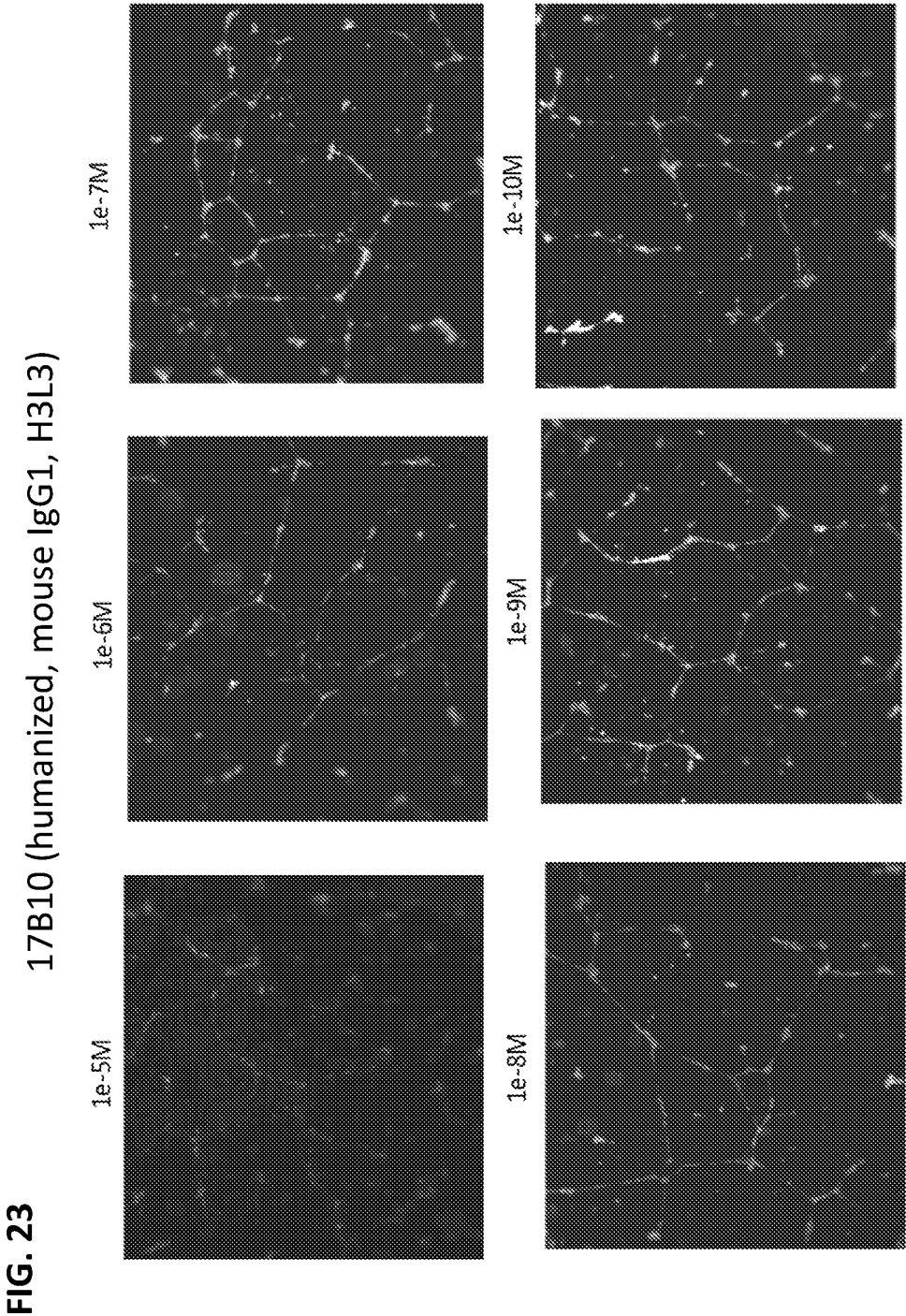


FIG. 24

stained with calceinAM 30min
counted by eye
HUVEC tubule assay

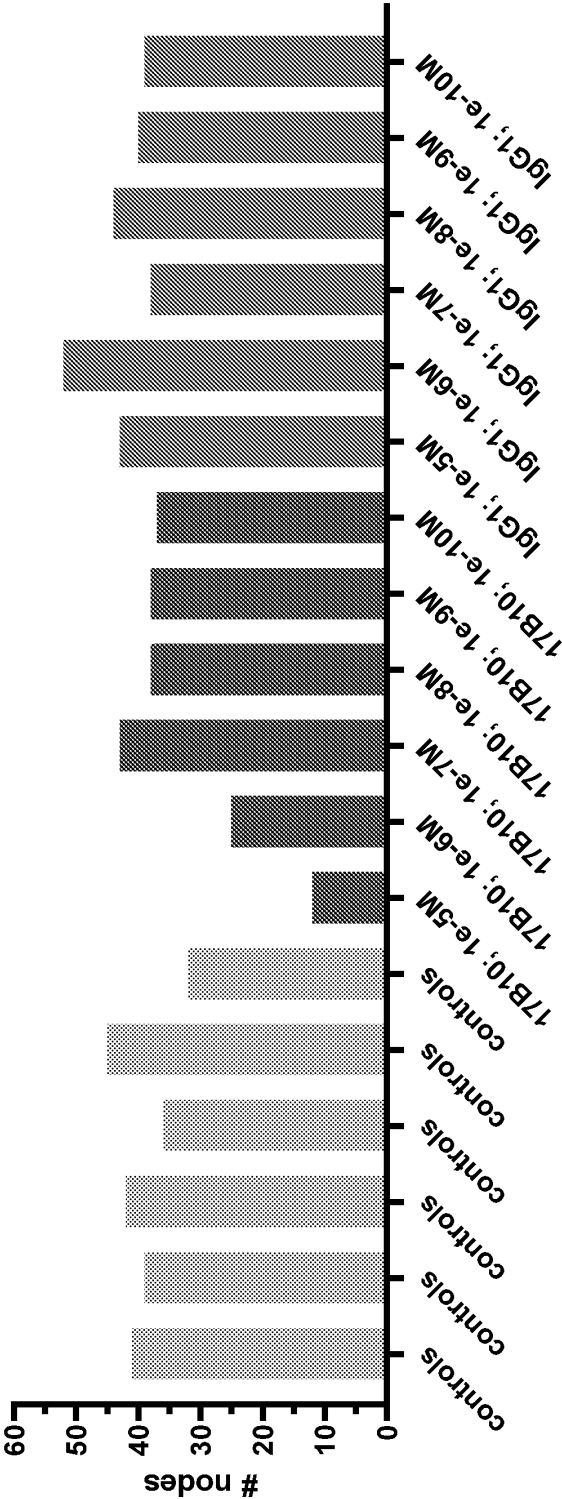


FIG. 25A

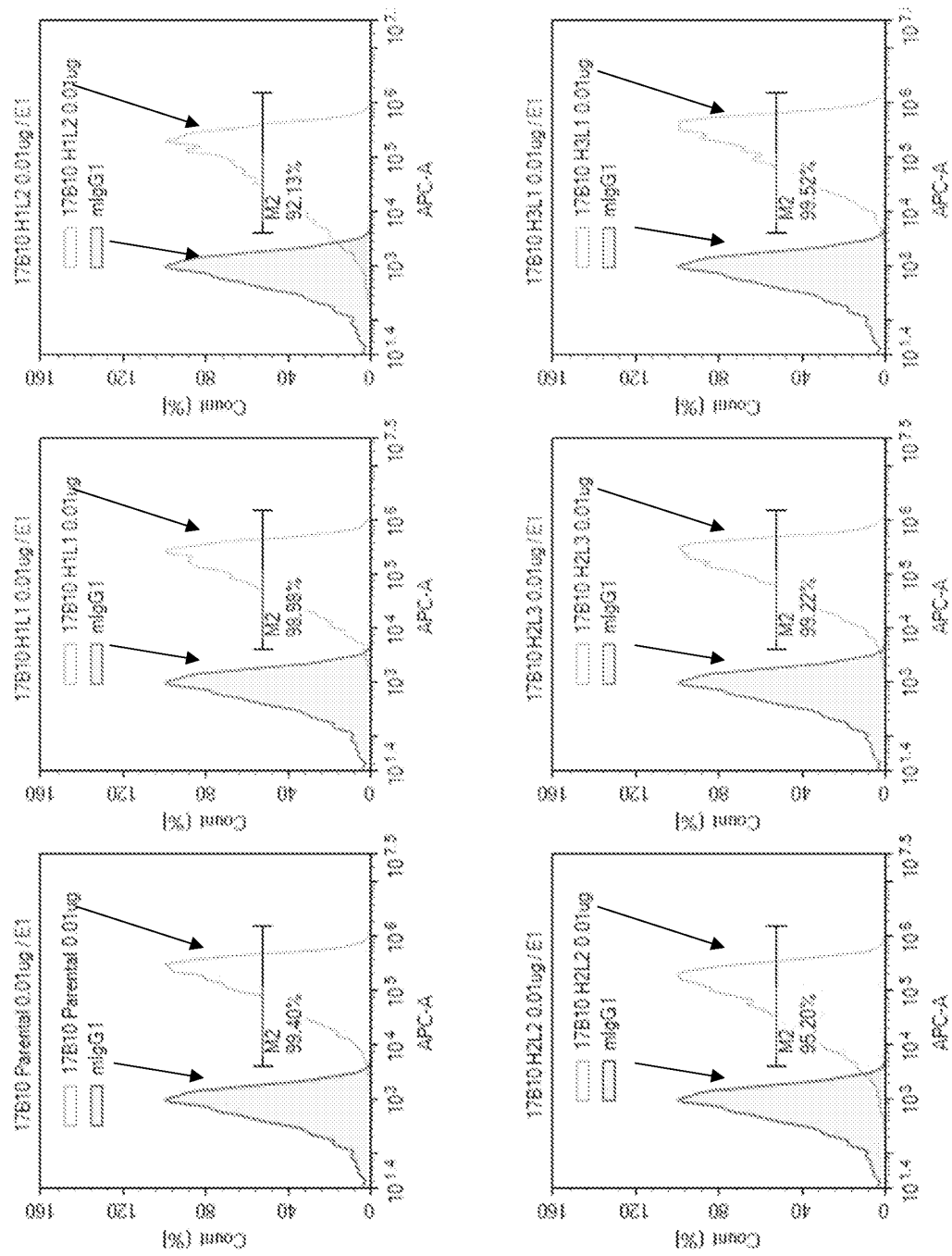


FIG. 25B

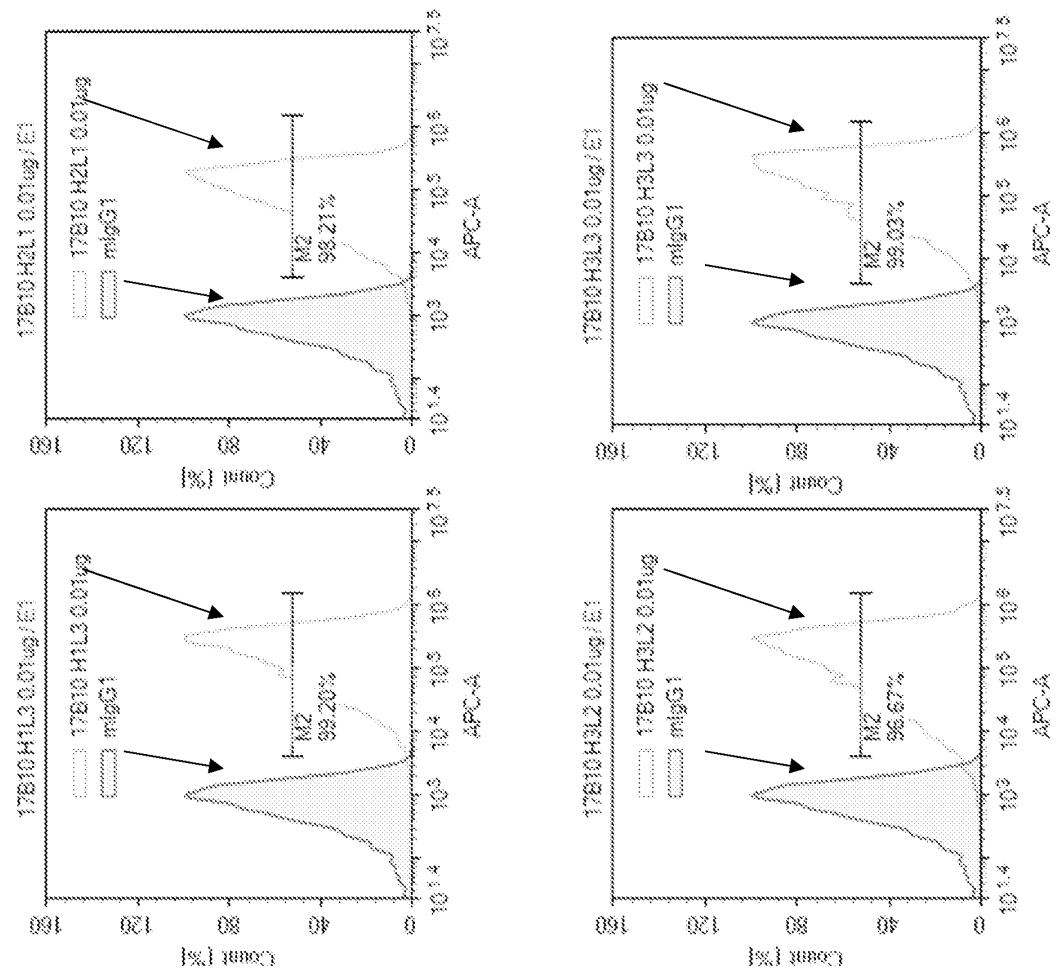


FIG. 26A

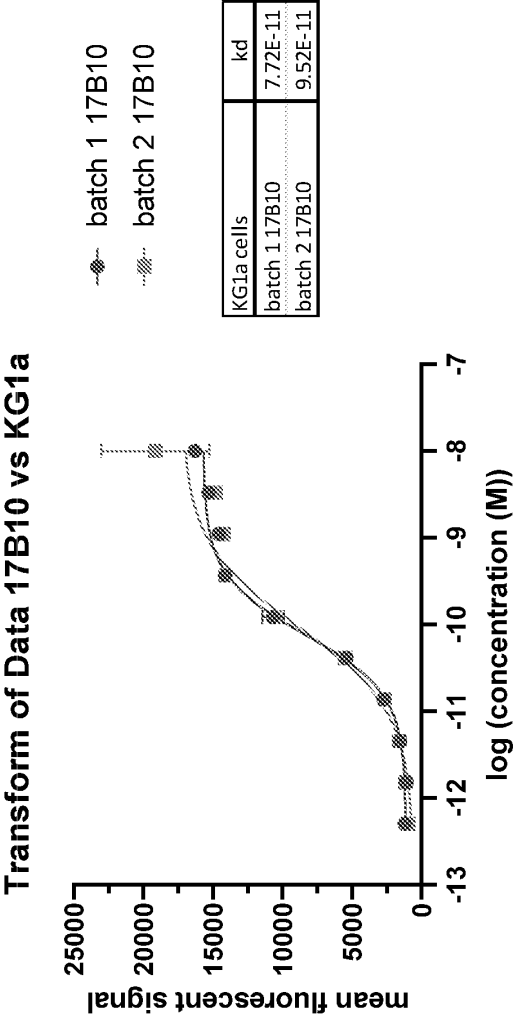


FIG. 26B

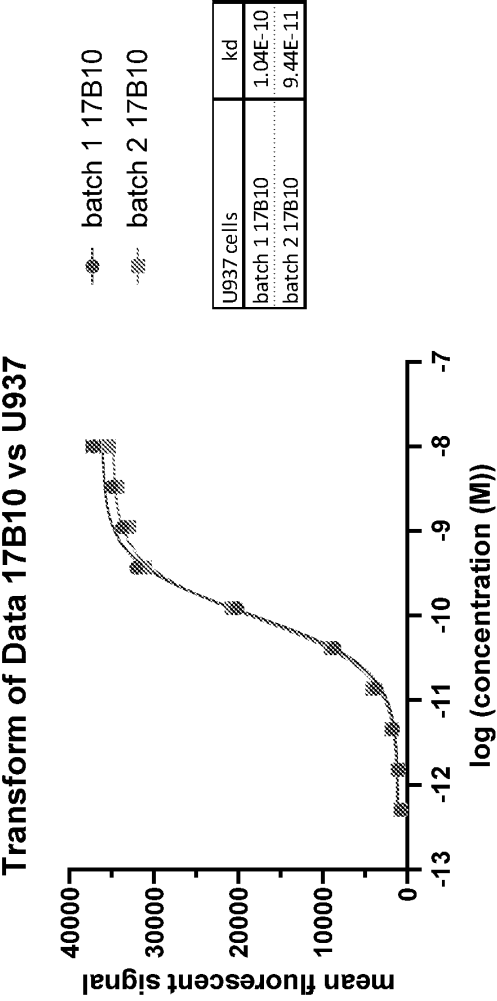


FIG. 27

mCD93 CHO

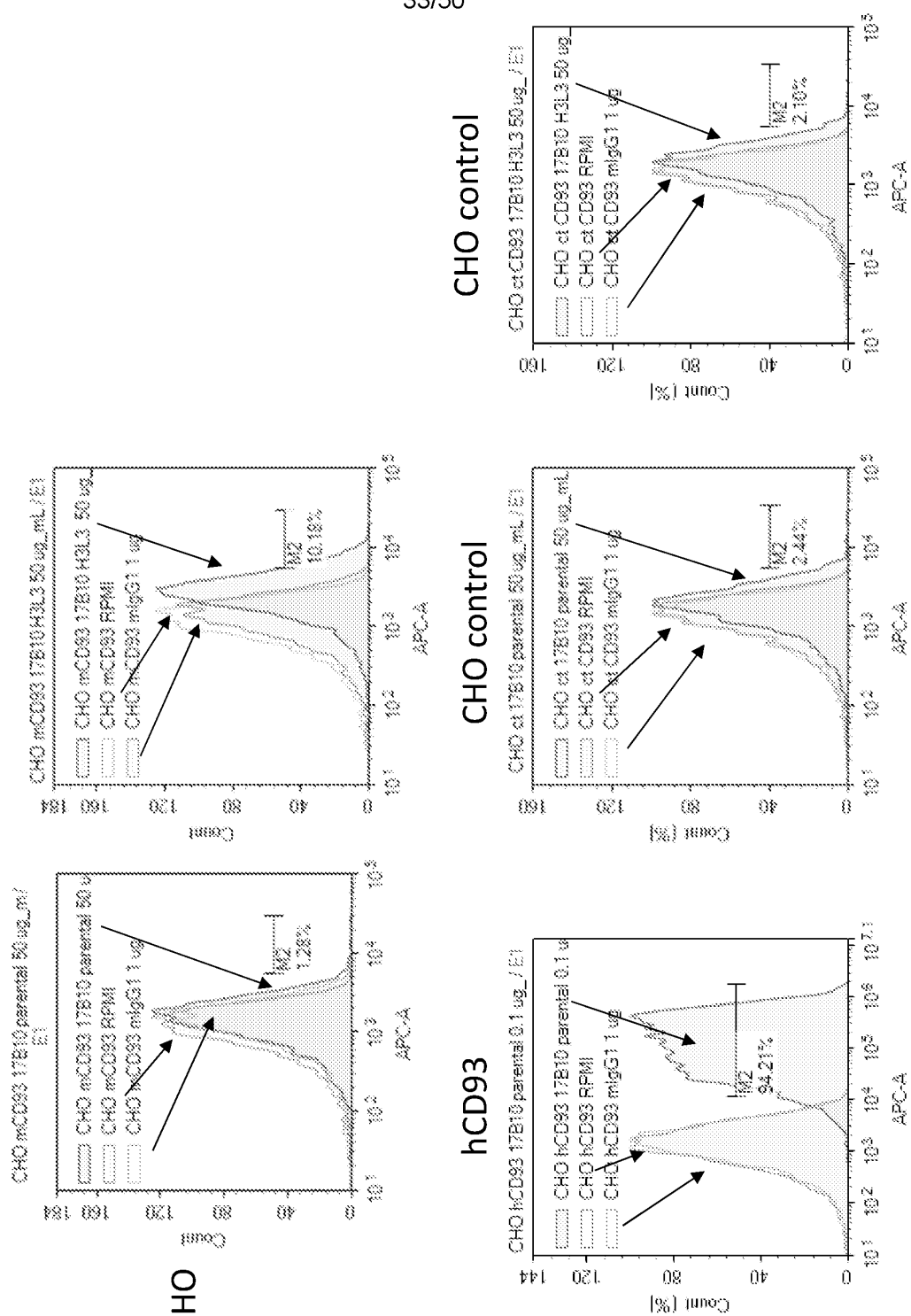


FIG. 28

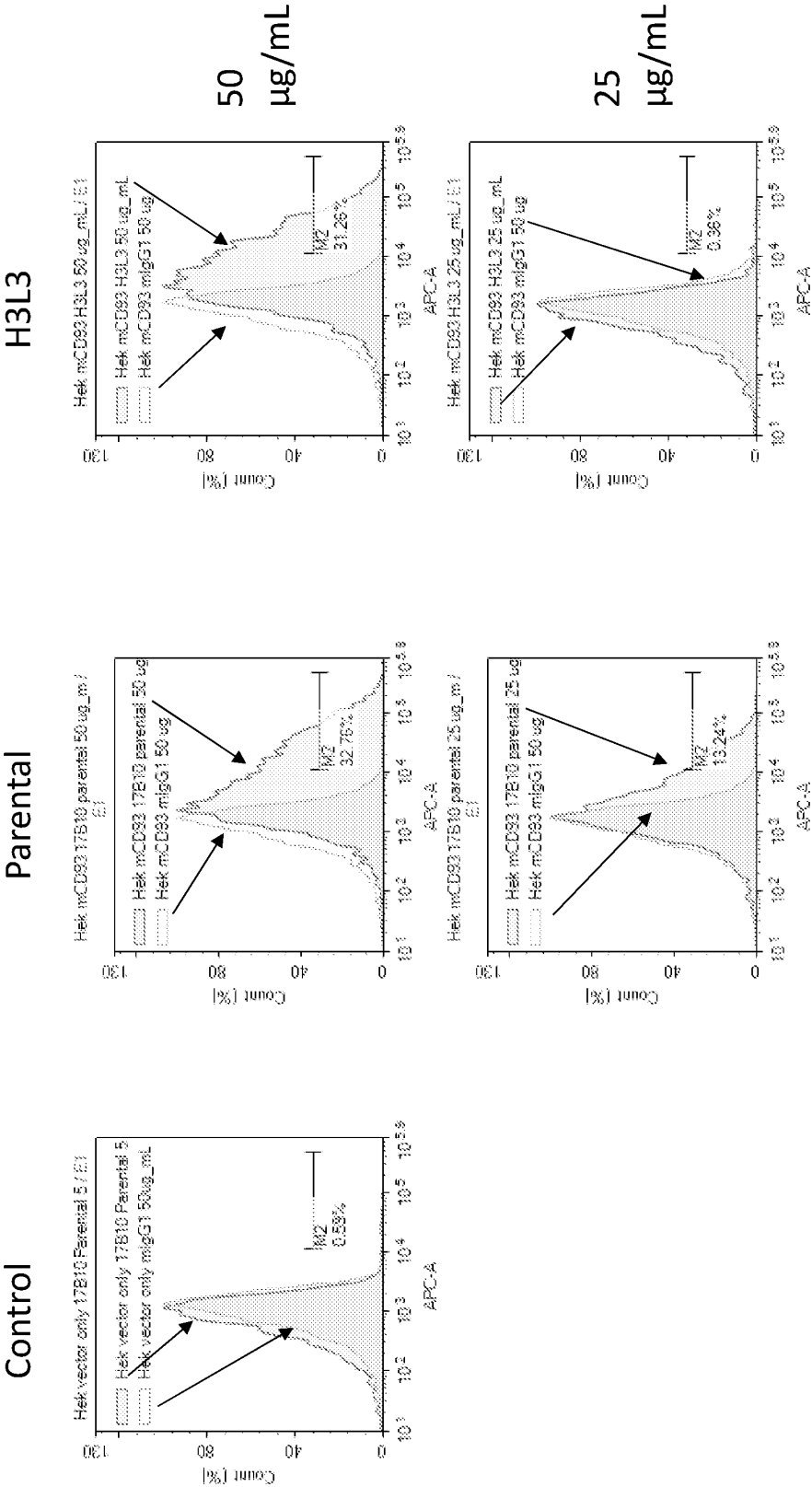


FIG. 29

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

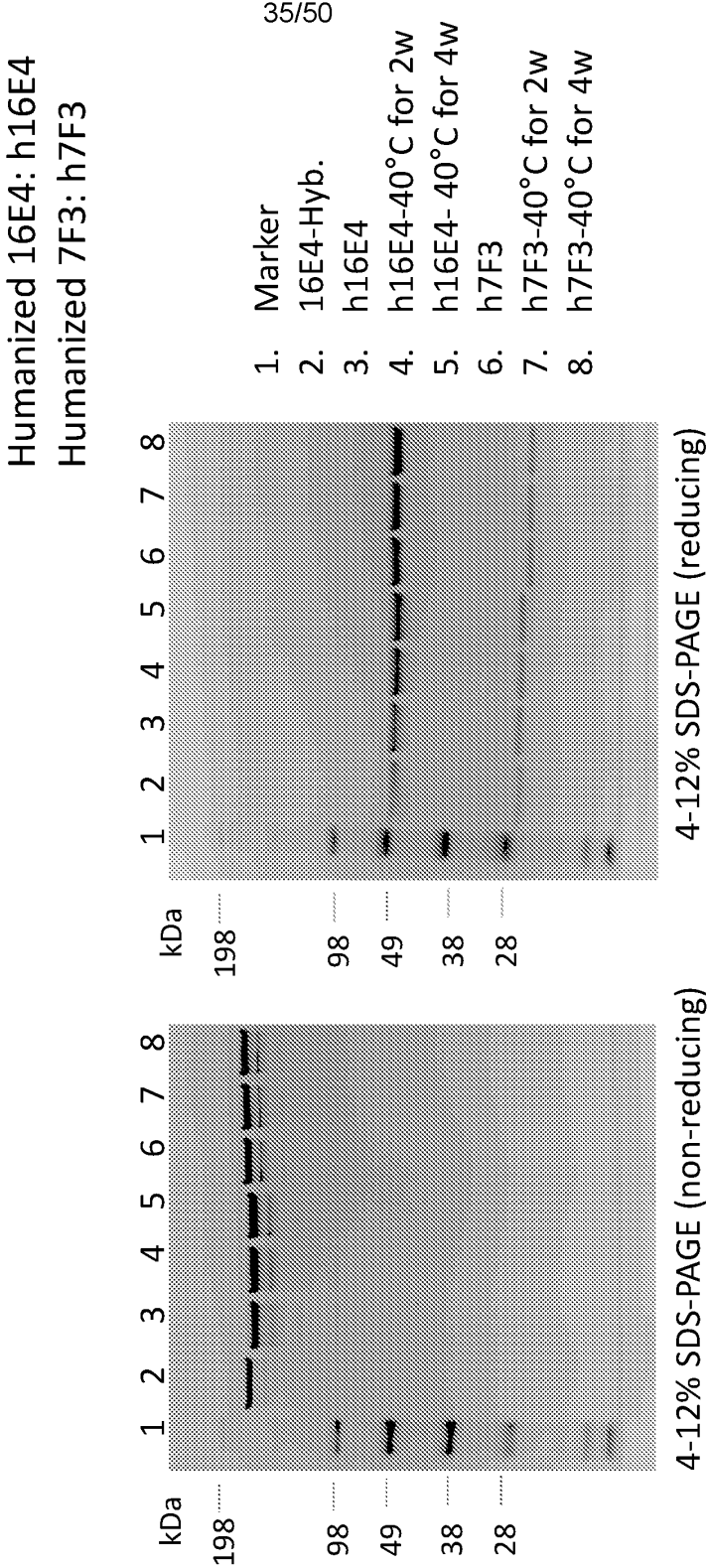


FIG. 30

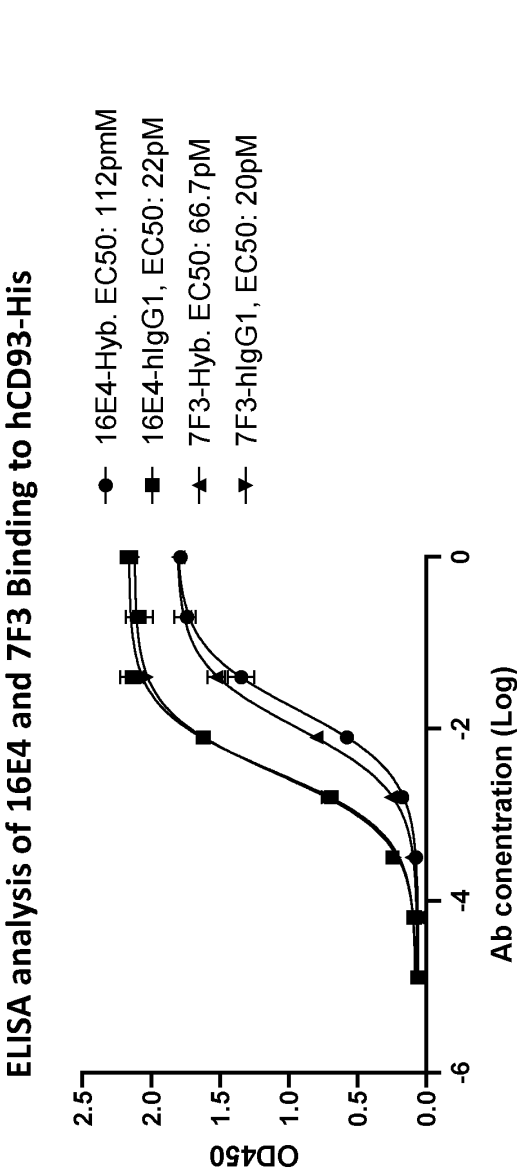


FIG. 31

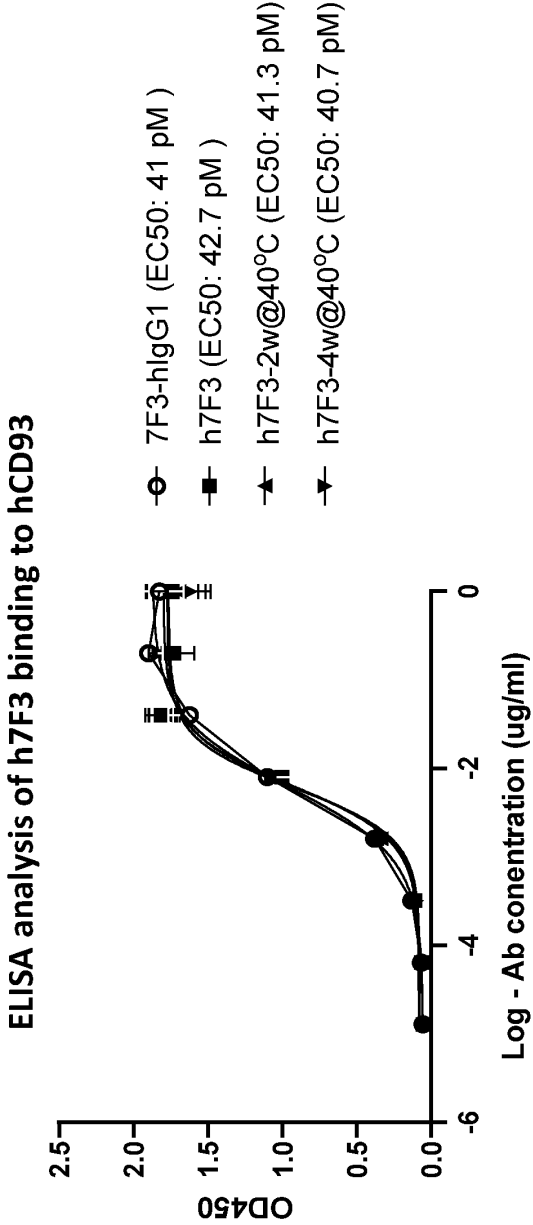


FIG. 32

ELISA analysis of h16E4 binding to hCD93

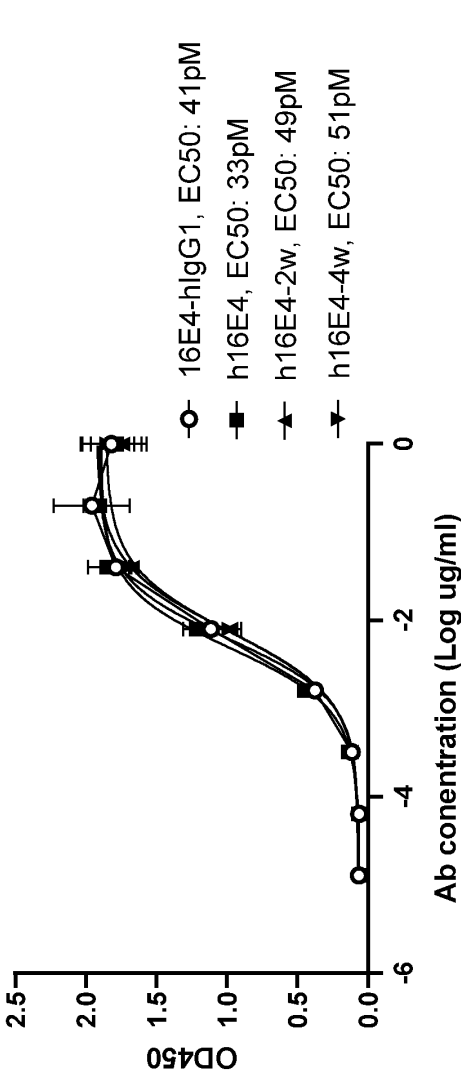


FIG. 33

ELISA analysis of 17B10 binding to hCD93

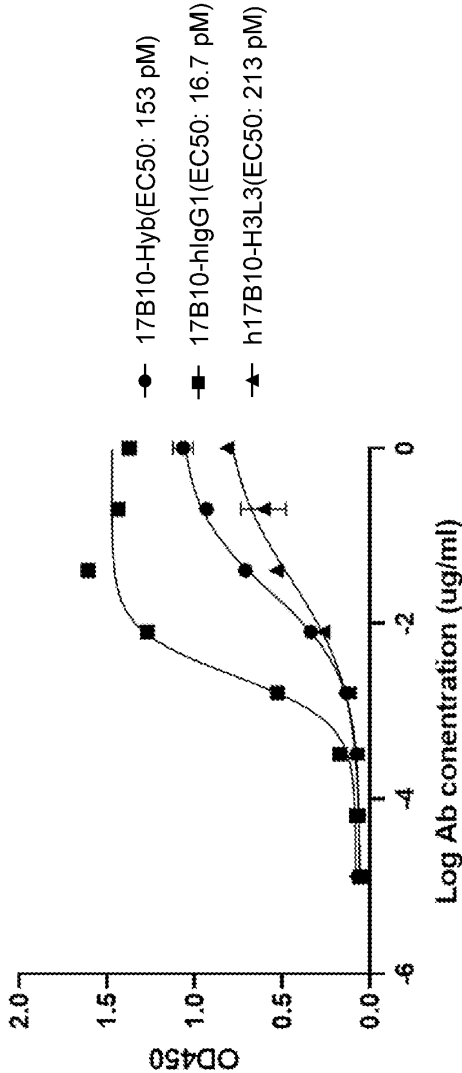


FIG. 34

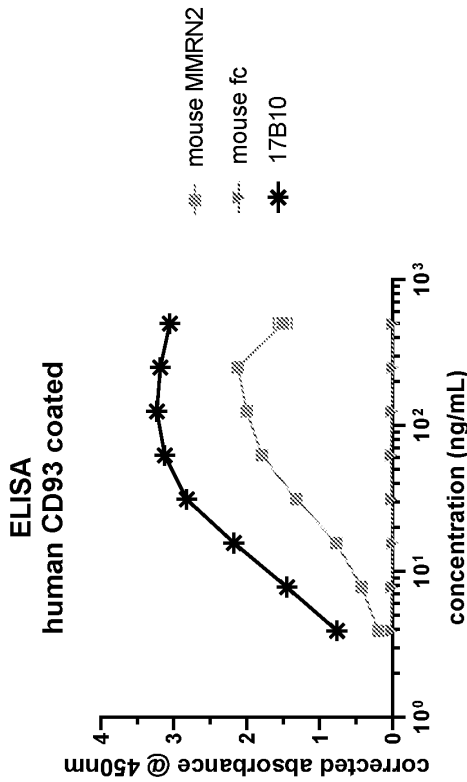


FIG. 35

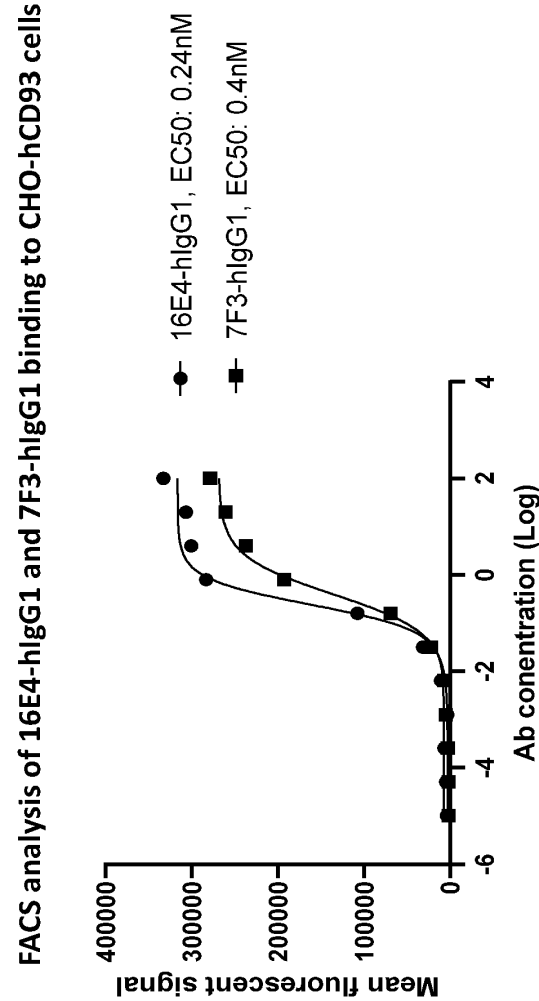


FIG. 36

FACS analysis of h7F3 binding to CHO-hCD93 cells

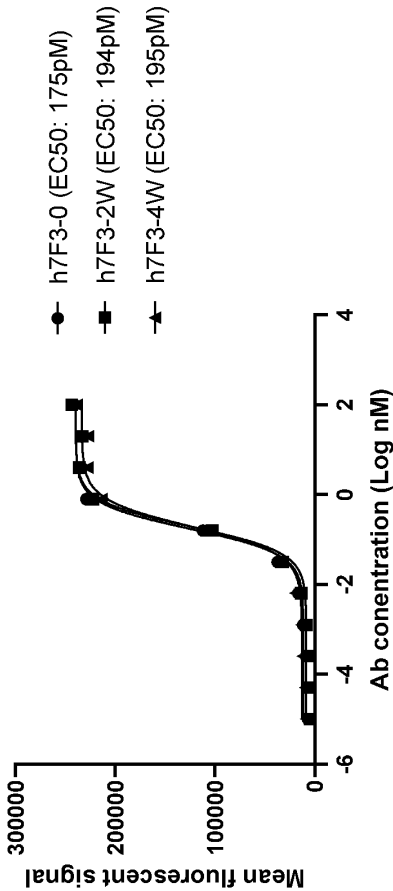


FIG. 37

FACS analysis of h16E4 binding to CHO-hCD93 cells

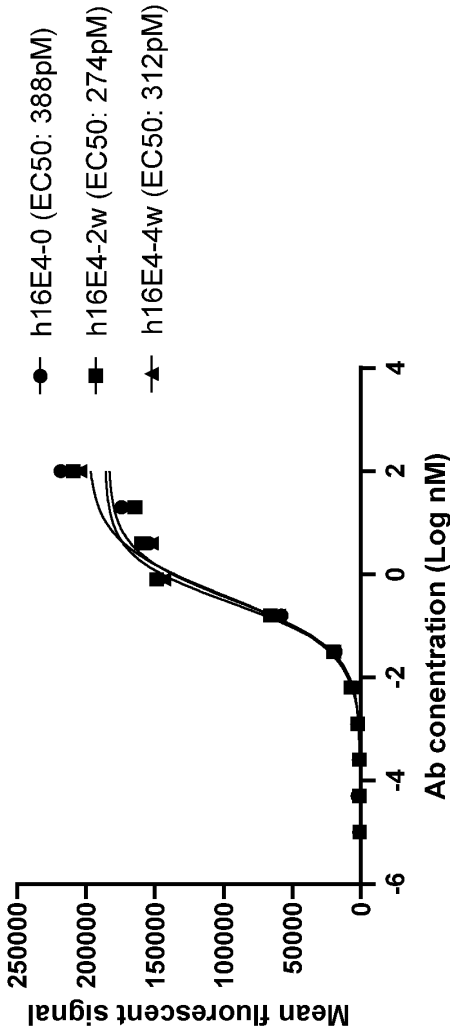


FIG. 38

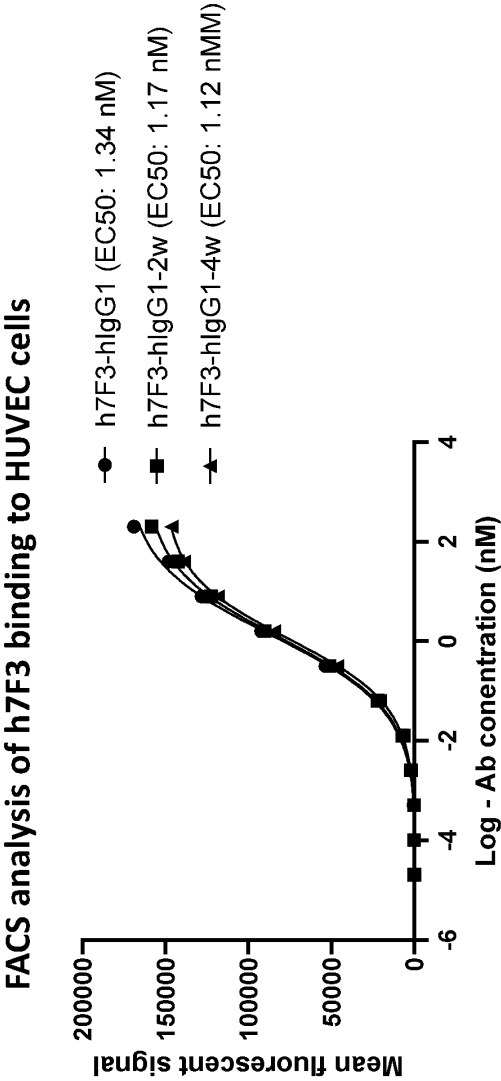


FIG. 39

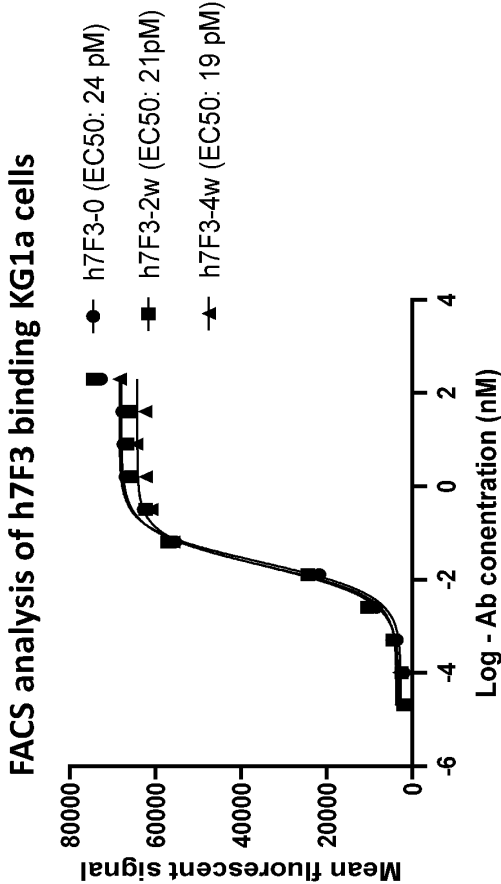


FIG. 40

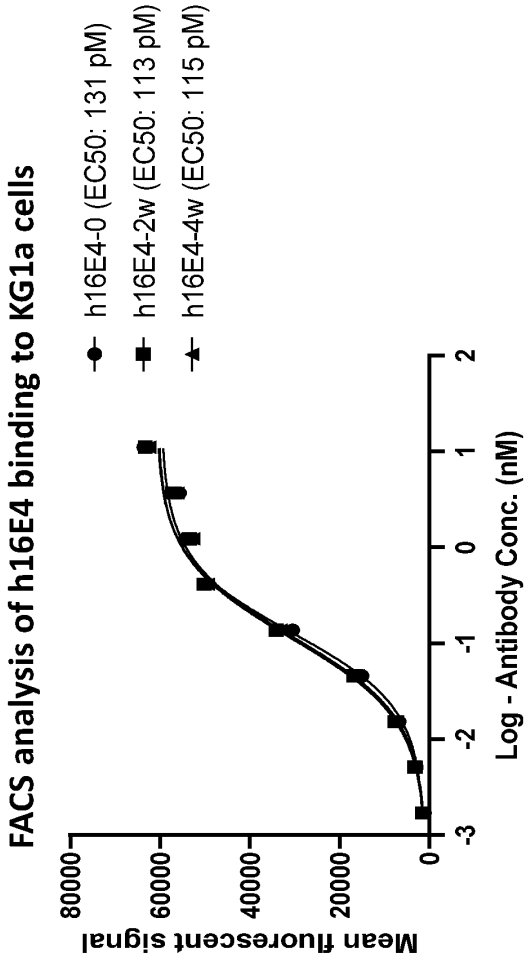
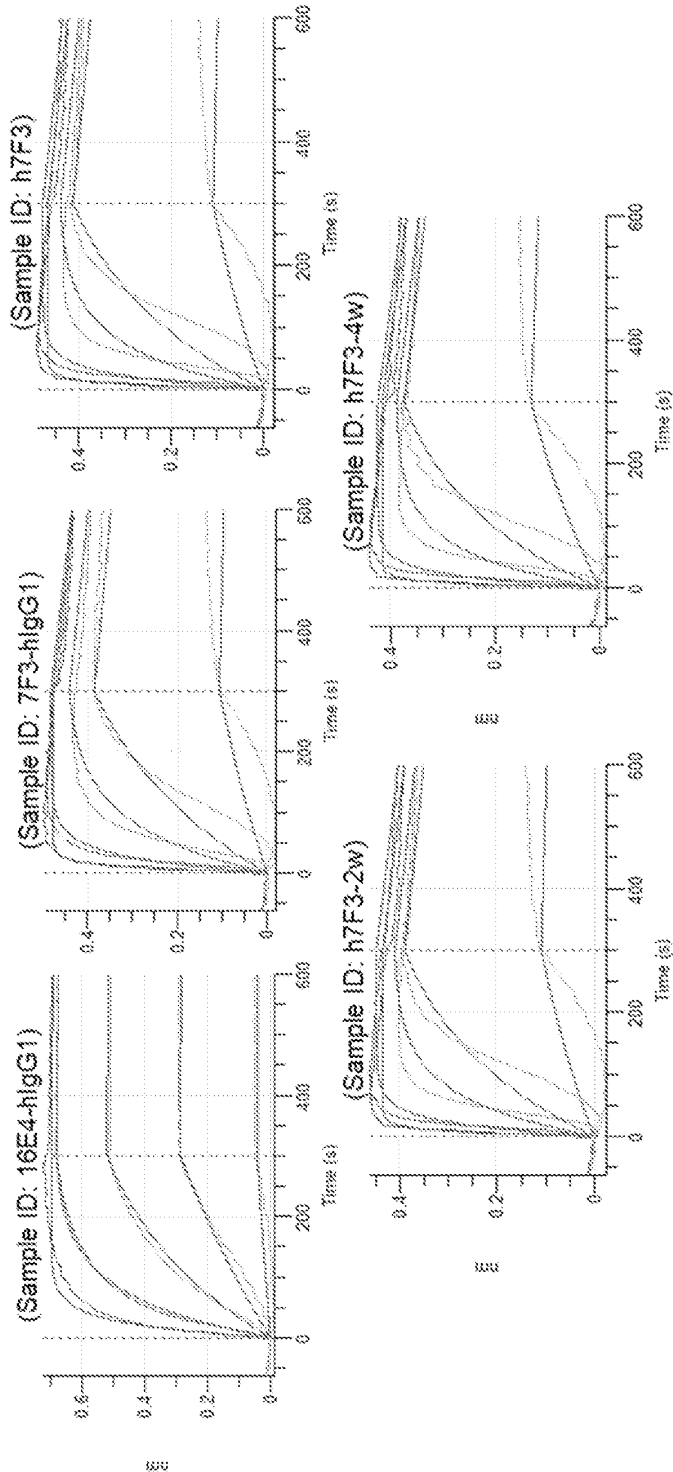


FIG. 41 Kinetic characterization of 16E4 and 7F3 binding to hCD93

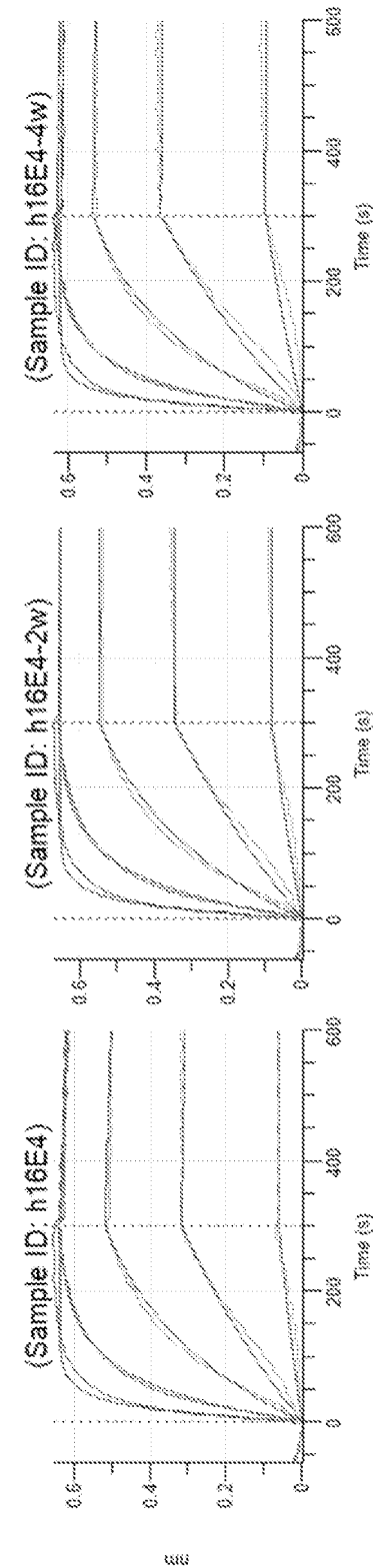


Sample ID	KD (M)	KD Error	ka (1/Ms)	ka Error	kdis (1/s)	kdis Error
16E4-hlgG1	1.35E-10	3.51E-11	2.17E+05	1.53E+03	2.93E-05	7.59E-06
7F3-hlgG1	5.88E-10	3.54E-11	5.70E+05	1.09E+04	3.35E-04	1.91E-05
h7F3	4.72E-10	3.19E-11	6.81E+05	1.43E+04	3.21E-04	2.07E-05
h7F3-2w	4.95E-10	3.23E-11	7.20E+05	1.60E+04	3.56E-04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

2 weeks at 40°C
4 weeks at 40°C

2 weeks at 40°C
4 weeks at 40°C

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

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

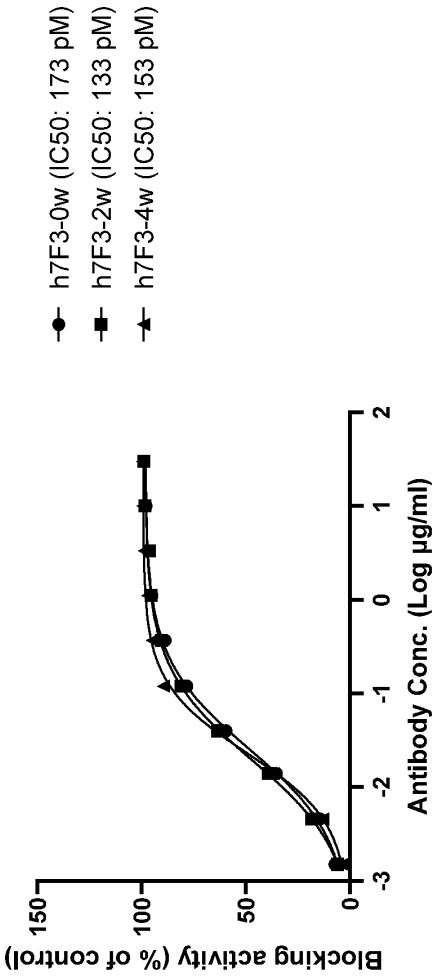


FIG. 45 MMRN2 blocking assay in CHO-hCD93 cells

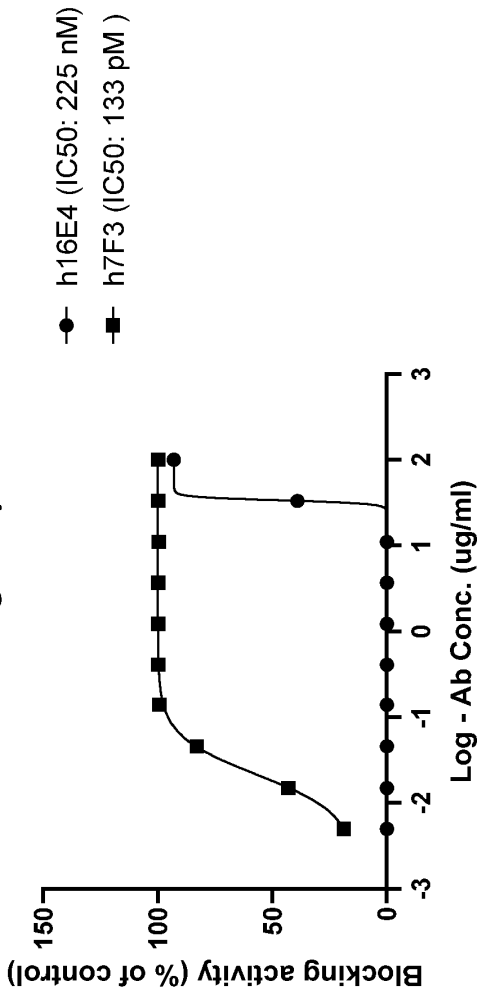


FIG. 46
FACS analysis of h7F3 blocking hIGFBP7-His binding to HUVEC cells

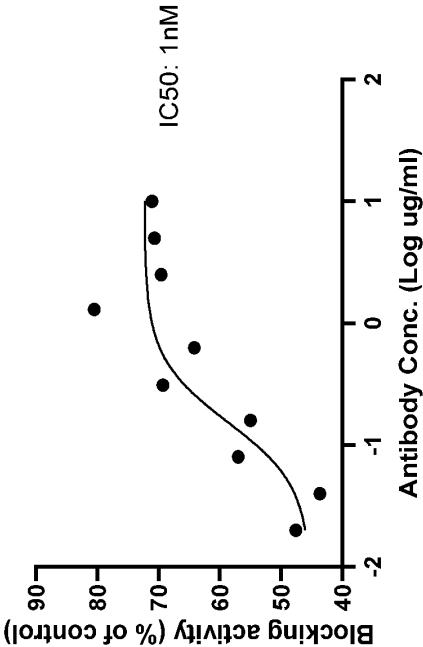


FIG. 47 Octet analysis of 7F3 blocking hIGFBP7 binding to hCD93

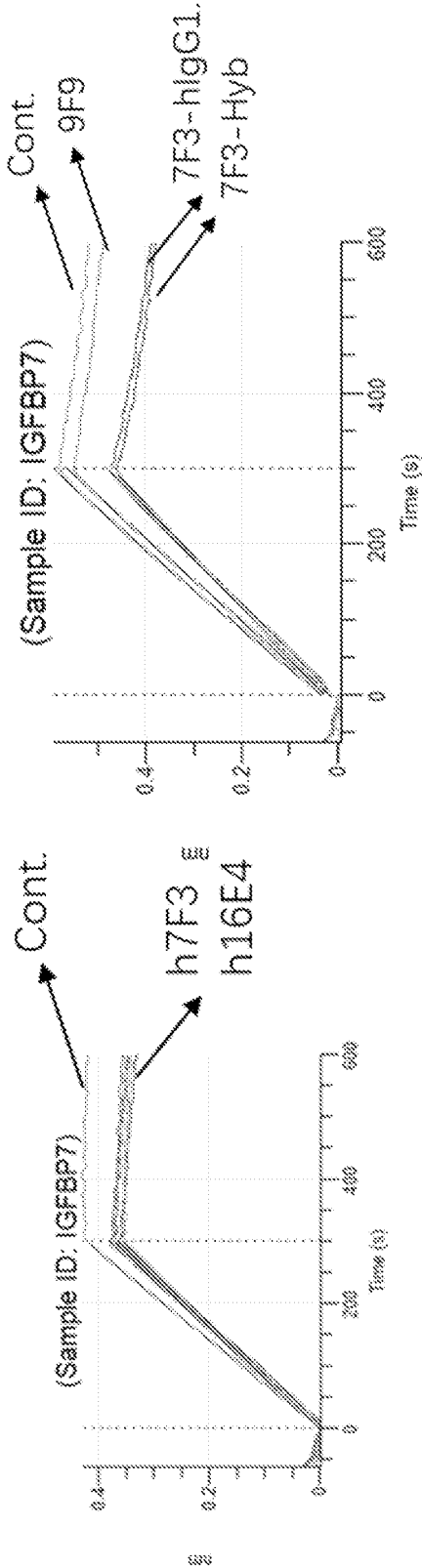


FIG. 48 Octet analysis of 16E4 blocking hIGFBP7 binding to hCD93

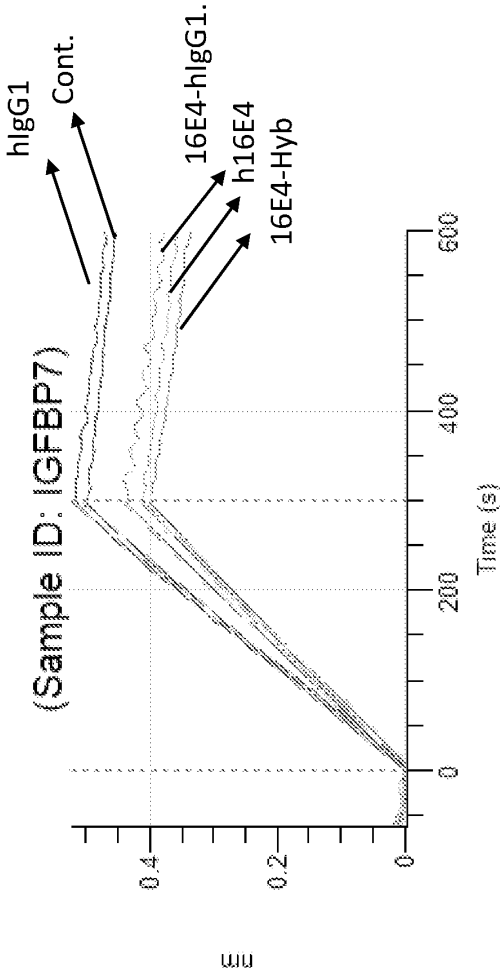


FIG. 49
HUVEC tube formation assay

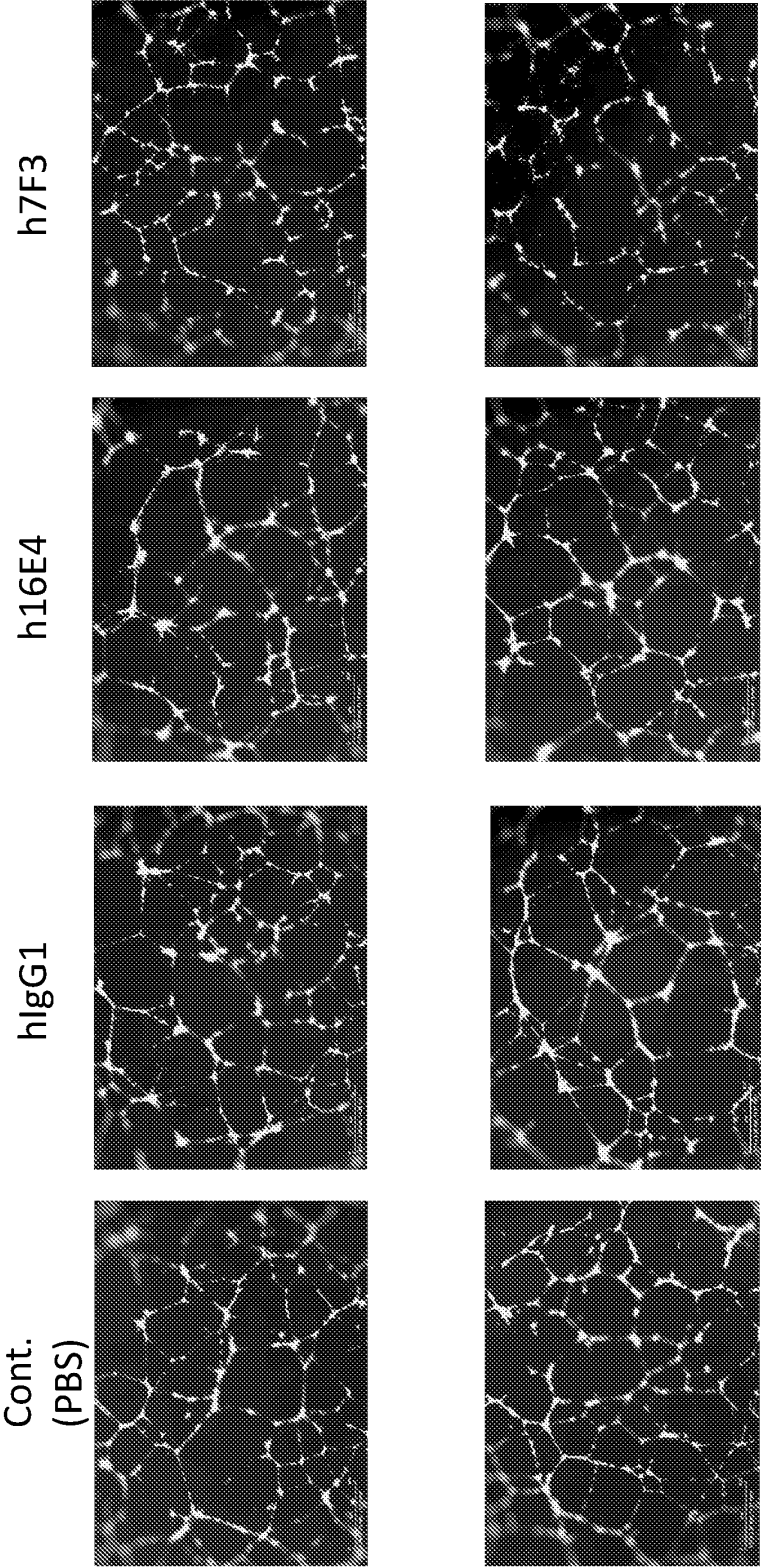


FIG. 50 HUVEC tube formation assay

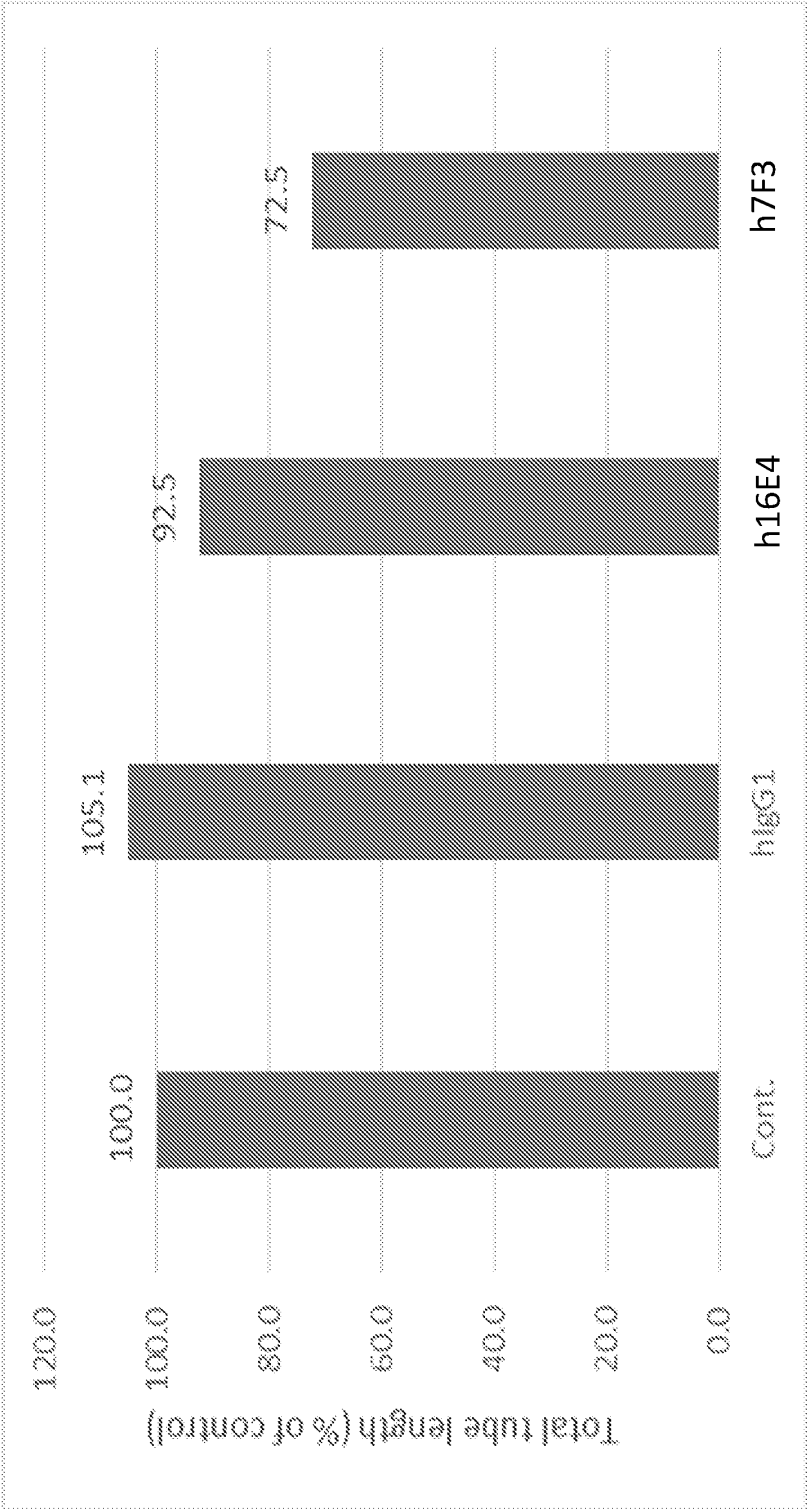


FIG. 51

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	+++	+++	-	+++	-	+	-	+	+ (B16)
7F3	IgG1	+++	+++	-	+++	-	+	+	+	+ (B16)
16A1	IgG1	+++	+++	+++	++	+	-	-	+	+ (B16, KPC)
17B10	IgG1	+++	+++	+++	+++	+	-	-	+	+ (B16)