

FIG. 1

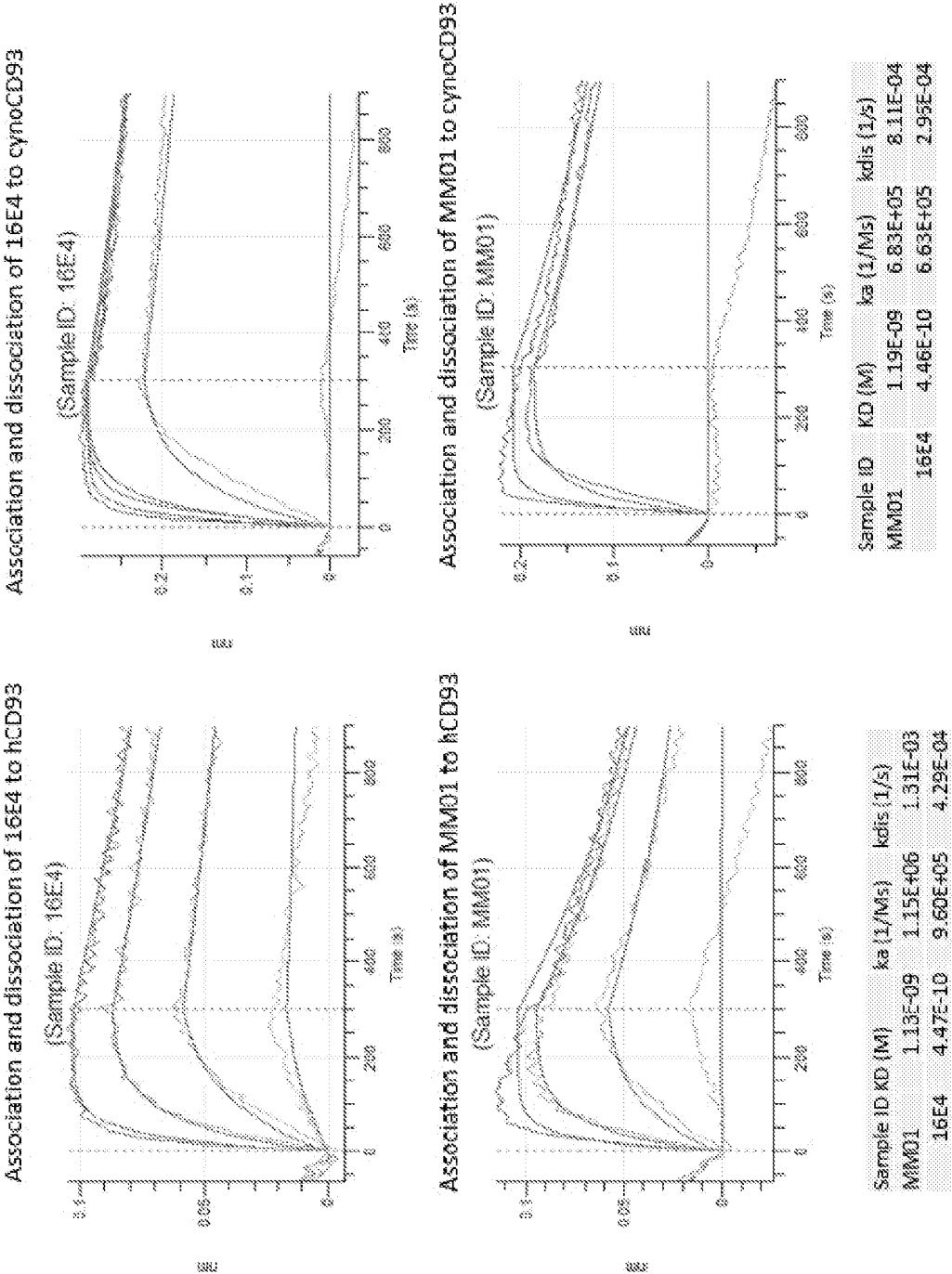


FIG. 2

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

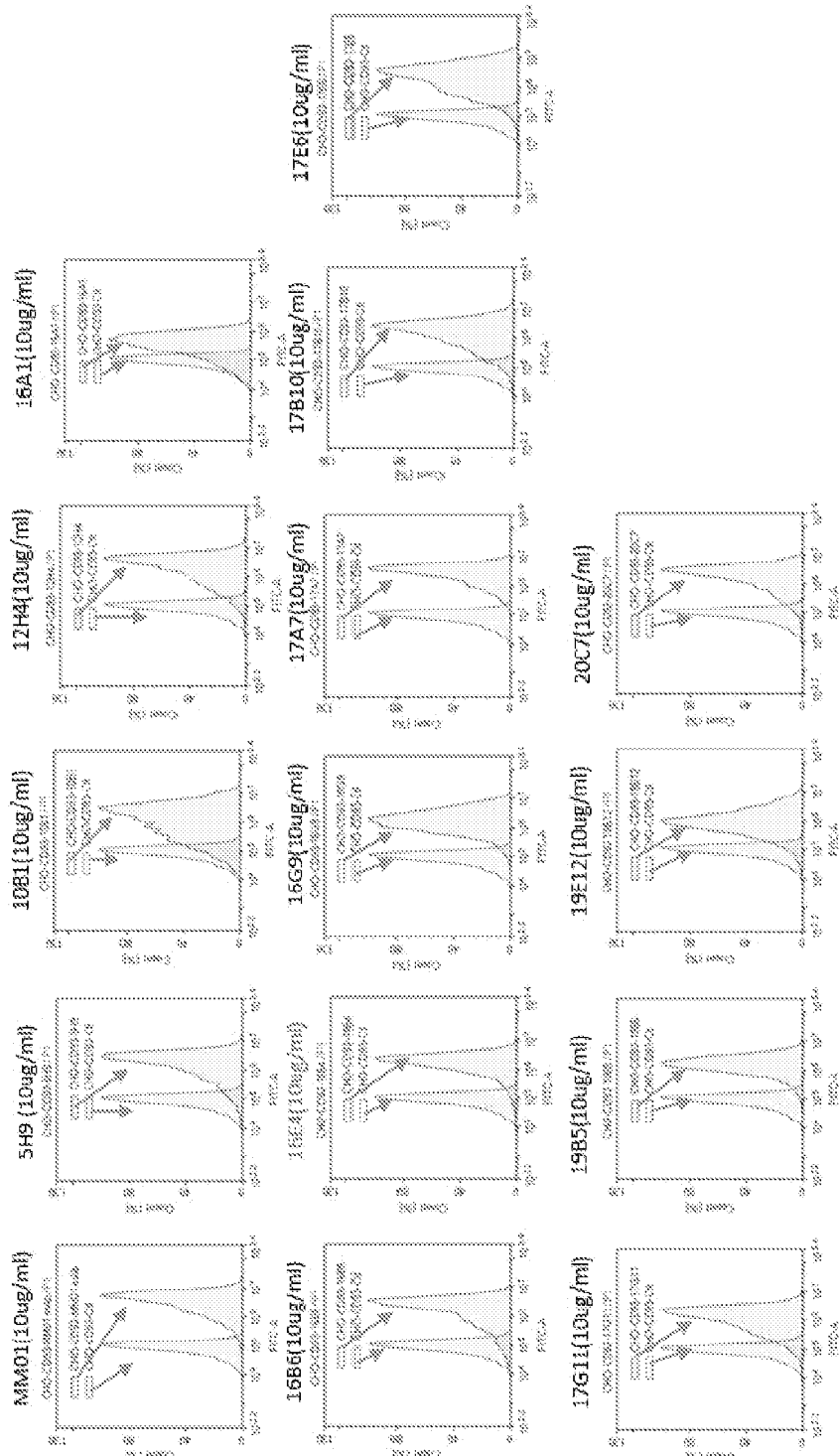


FIG. 3A

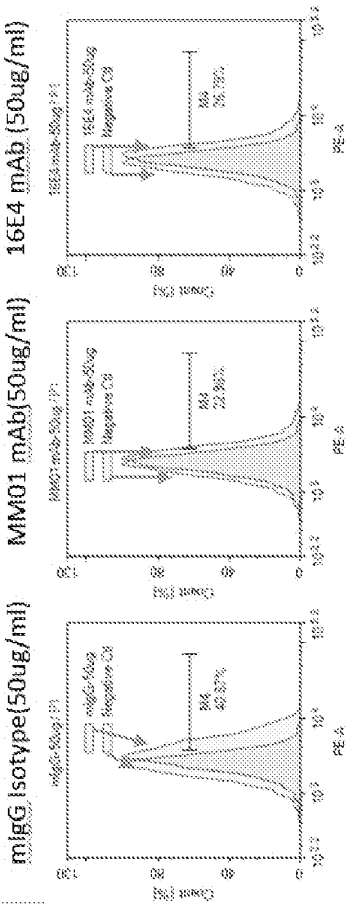


FIG. 3B

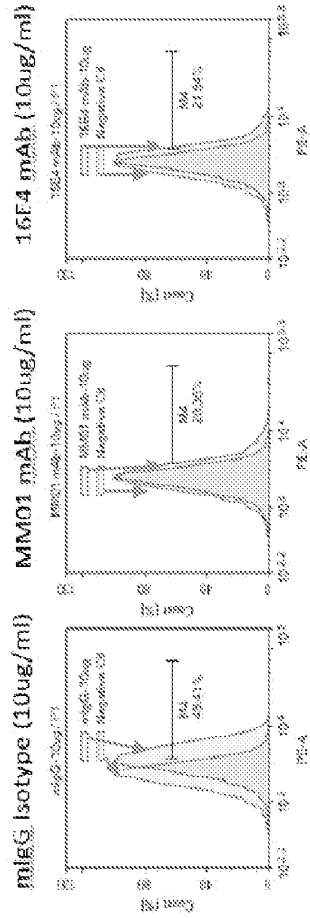


FIG. 3C

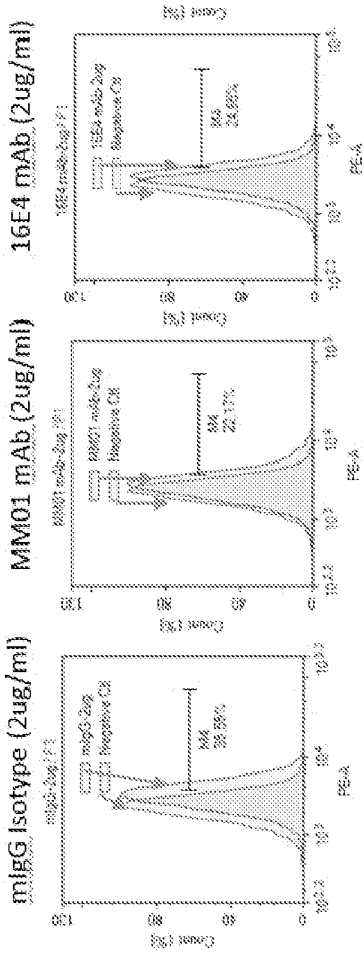


FIG. 3D

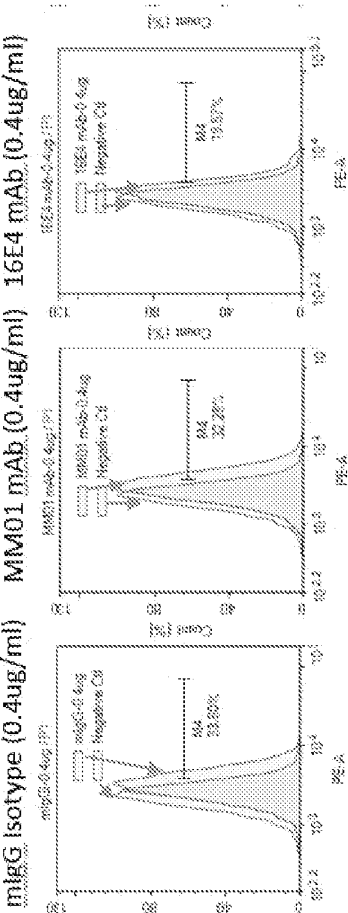


FIG. 4A

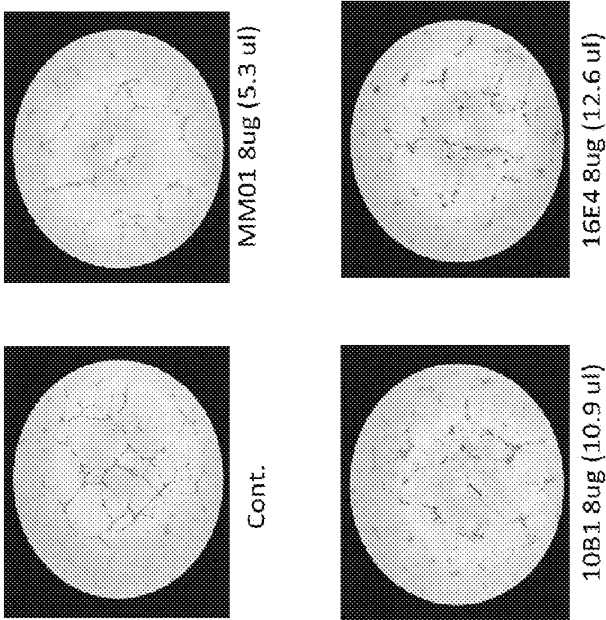


FIG. 4B

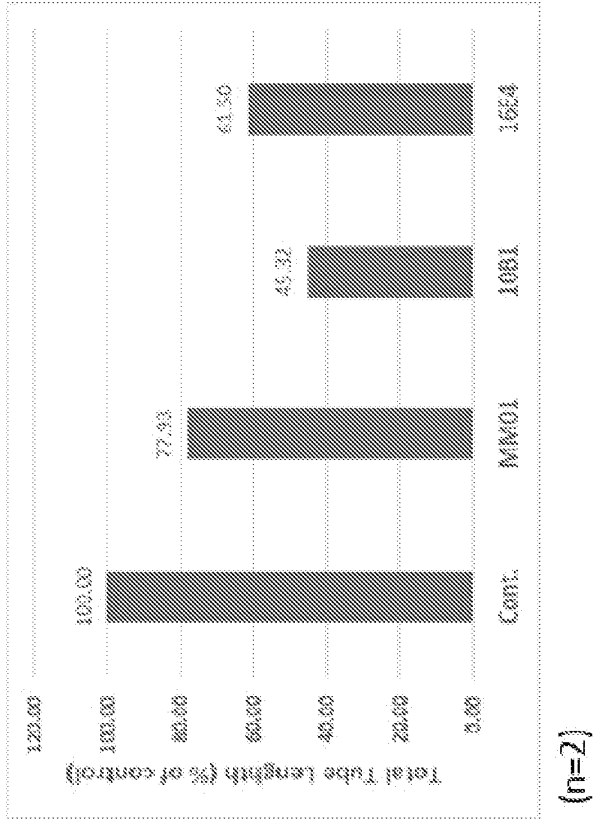


FIG. 4C
HUVEC (invitrogen; 2x10⁴cells/well) tube formation ~ 18h

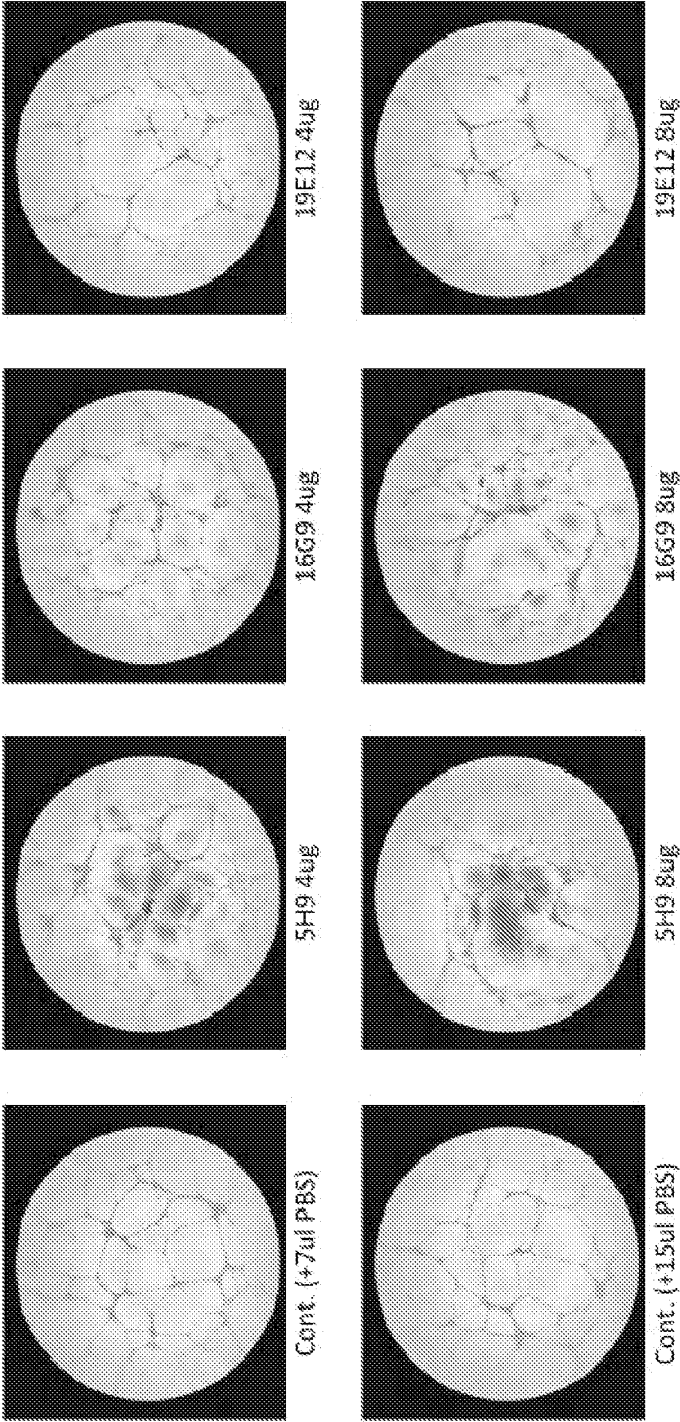


FIG. 4D

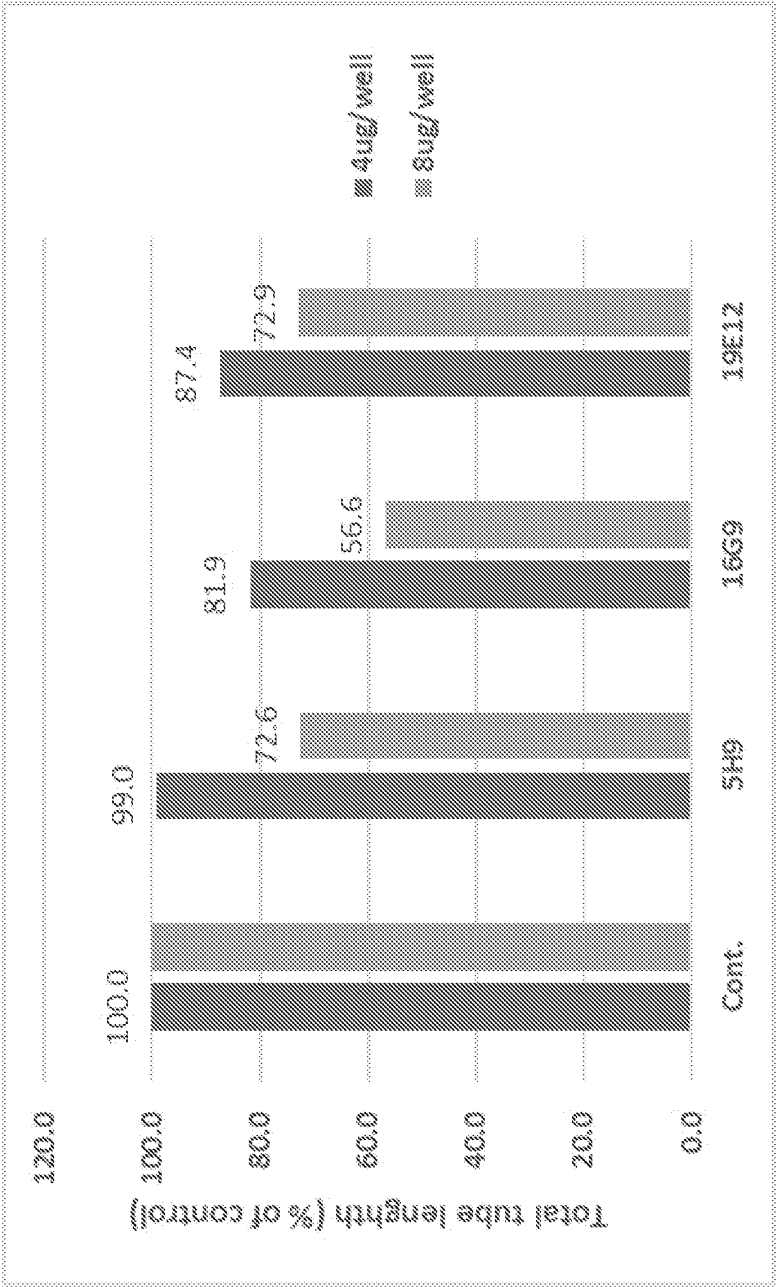


FIG. 4E HUVEC (invitrogen; 2x10⁴cells/well) tube formation – 18h

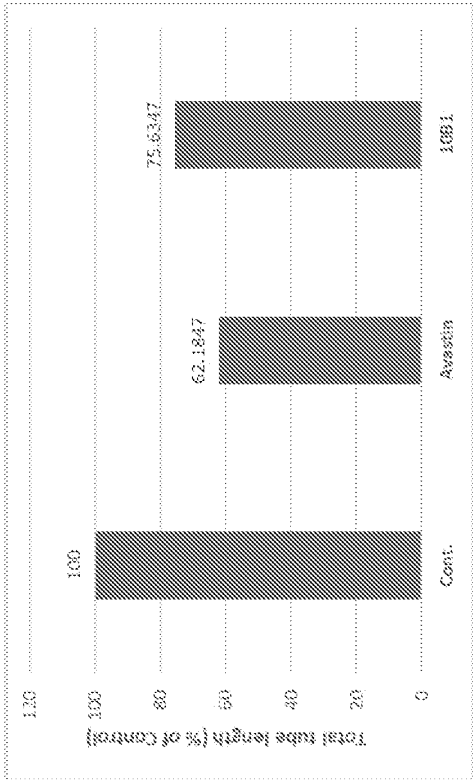


FIG. 4F

FIG. 5A

Epitope binning in anti-CD93 hybridoma sups

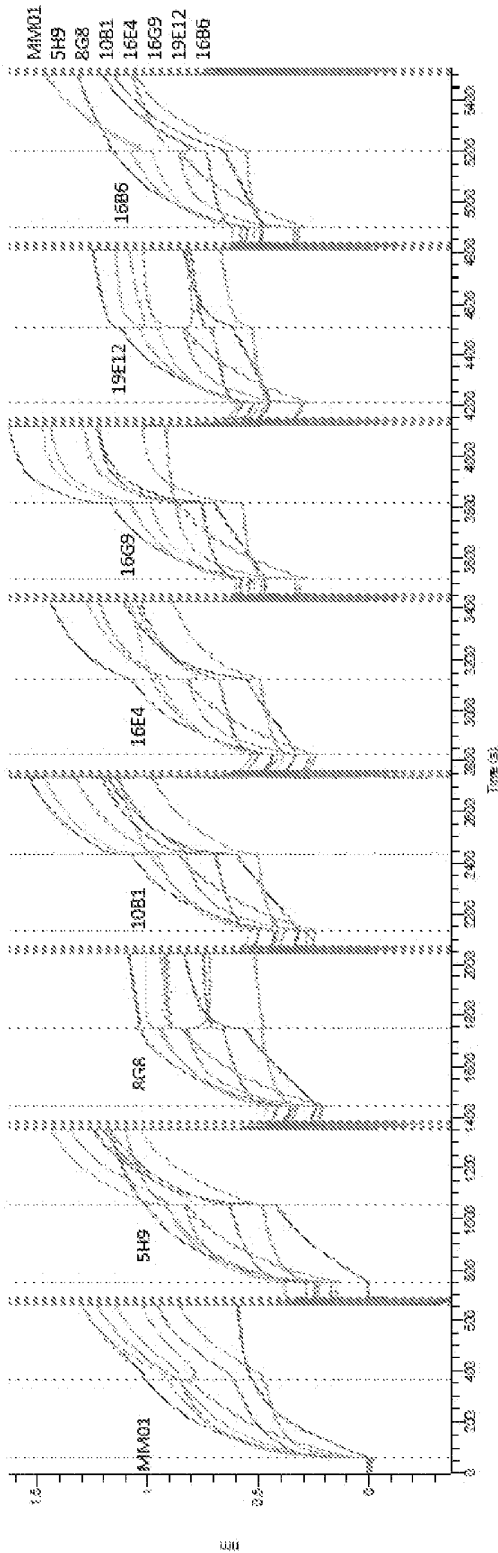


FIG. 5B

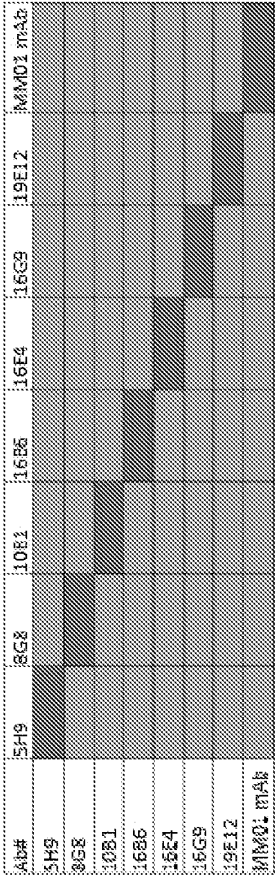


FIG. 6A

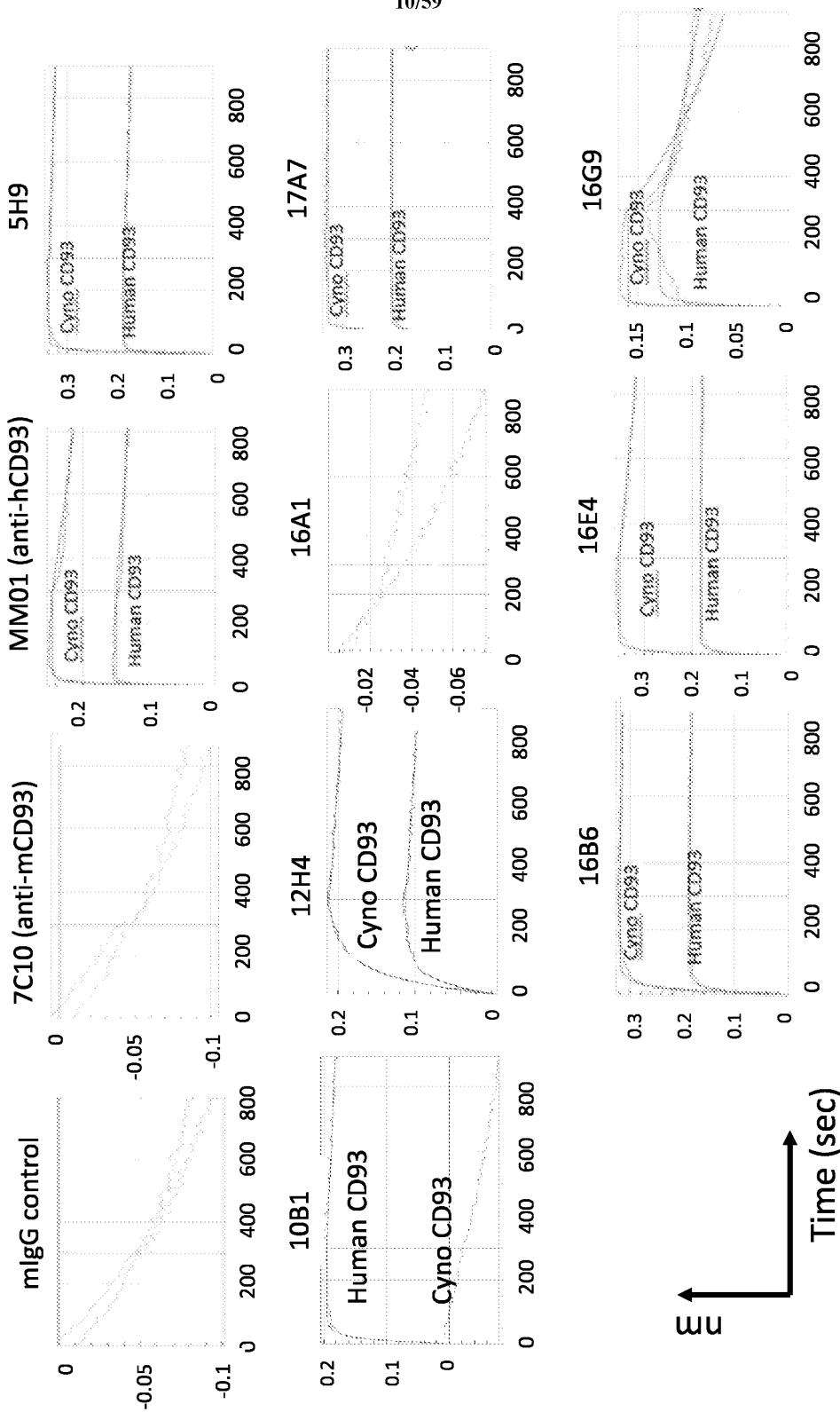


FIG. 6B

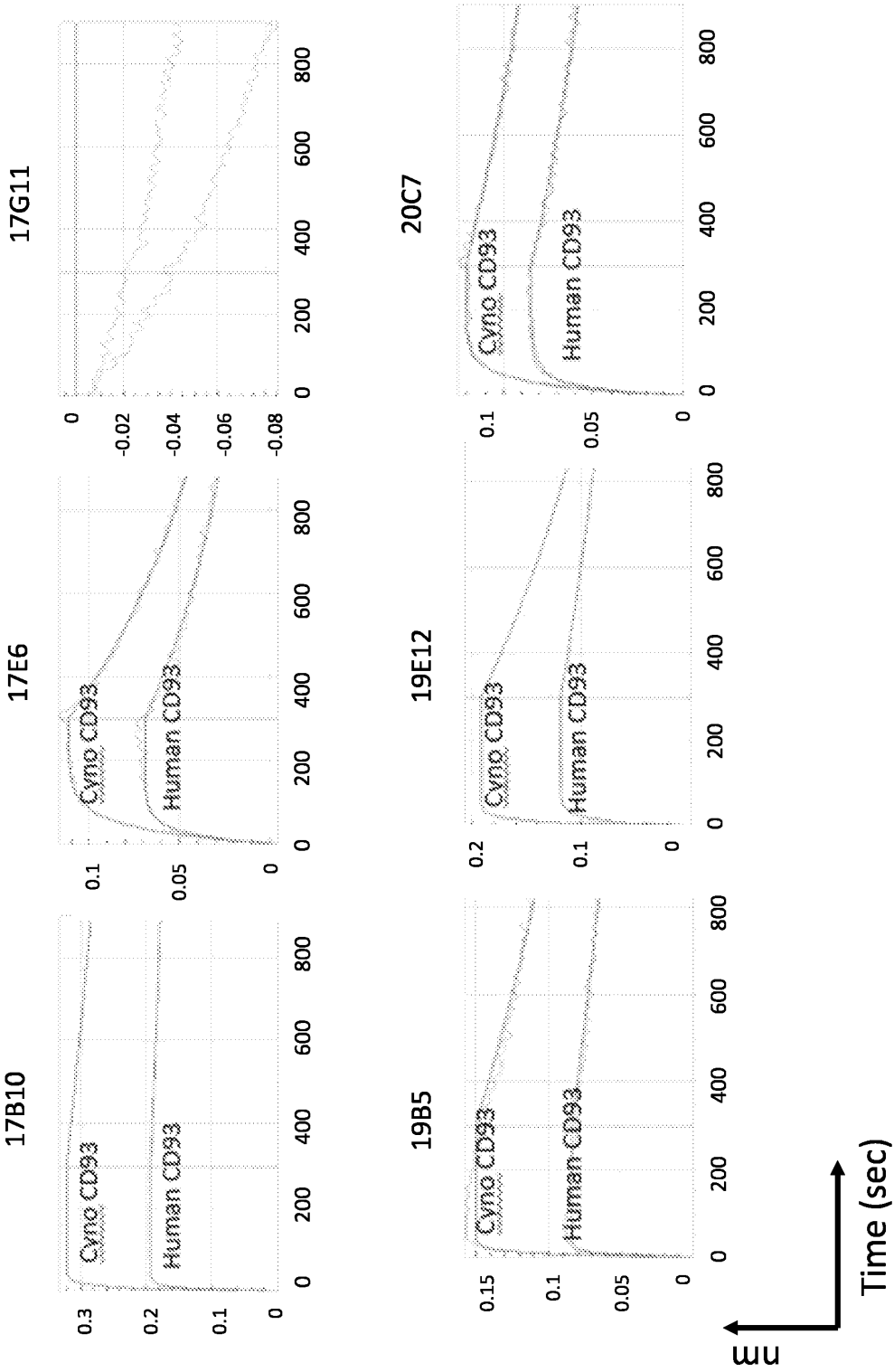


FIG. 7A

	CDRH1	CDRH2
10B1_VH	1 QVQLKQSGFGLVQPSQSLSTCTVSDFLSSFGVNWVRQPPCKGLEWLGVIWSSG-GSTDY	
19B5_VH	1 DVNLVESGGGLVVKLGCSLKLSCAASGFTFSNYMSSWVRQSPVEXRLEWVATISNNGDSTYY	
16G9_VH	1 EVQLQQSGPELVKPGASVFMSCKASGYTFTDYWMNWVKQSHGKSLEWIGRVNPNNGKTY	
16A1_VH	1 QVQLQQSDAELVKPGTSVKISCKASGYTFTDHGIRHWVKQRPERGLEWIGNISPNNGDIKY	
20C7_VH	1 EVQLQQSGPELVNPGASVFMSCKASGYTFTAYVMHWVKQKPGQGLEWIGYIFPYNDGTEY	
17E6_VH	1 EVQLQQSGPELVKPGASVFMSCKASGYTFTSYVMHWVKQKPGQGLEWIGYINPYSDYTOY	
16E4_VH	1 QVQLQQPGAEVVKPGASVKLSCKASGYTFTSYWMNWVKQRPGQGLEWIGEDPSASATYY	
12H4_VH	1 EVQLQQSGPELVKPGASVFMSCKASGYTFTDYIHWVKQRPGQGLEWIGEDPSDDAYX	
5H9_VH	1 QVQLQQSGPDLVKPGASVKISCKASGYAFSTYWMNWVKQRPGQGLEWIGRIFFQDCDANY	
17A7_VH	1 QVQLQQSGPELVKPGASVKISCKSGGYAFSTYWMNWVKQRPGQGLEWIGRIFFQDCGUTDY	
16B6_VH	1 QVQLQQSGPELVKPGASVKISCKASGYAFSRSMNWVKQRPGQGLEWIGWIYFQDCGDTNY	
17B10_VH	1 QVQLQQSGPELVKPGASVKISCKASGYAFSSYWMNWVKQRPGQGLEWIFQRIYFQDCGDTDY	
19E12_VH	1 QVQLQQSGAELVKPGASVKLSCKASGYTFTDYEMHWVRQTPVHGLEWIGGIDPETGGTAY	
17G11_VH	1 EVQLQQSGCTVLARPGASVFMSCKASGYTFTSYWMHWVKQRPGQGLEWIGAIYFQNSDTSY	
	CDRH3	
10B1_VH	60 NVAFTSRSLISKDNSKQVEFKMNNIQADUTAIYFCARNWRYDGYFFYAMLYWGGGTSVTV	
19B5_VH	61 LDTVMGRFTISRDSAENTLYLQMSSLISETAVYYCTFVGT-----GETYWGQGLTVTV	
16G9_VH	61 NQKEKKGKATLTVDKSLSTAYMQLNSLTSEDSAVYYCARWRLRP-VDYGMQYWGQGTSTVTV	
16A1_VH	61 NEKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCTT-----YFVDWCRGTLVTV	
20C7_VH	61 NEKFKGKATLTSEKSSSTAYMELSSLTSEDSAVYFCARRTDGN-P-YTMDYWGQGTSTVTV	
17E6_VH	61 NEKFKGKATLTSEKSSSTAYMELSSLTSEDSAVYSCARRADGN-P-YAMDYWGQGTSTVTV	
16E4_VH	61 NQKEKKGKATLTVDKSSSTAYMQLNSLTSEDSAVYYCARSV-YY-GNKYFDVWGAGTSTVTV	
12H4_VH	60 NEKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCTRETETA-----TAYWGQGTSTVTV	
5H9_VH	61 NGKEKKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCTETGAAY-DFDPPPYWGQGTSTVTV	
17A7_VH	61 DGKEKKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCARTGAAY-EFDPPPYWGQGTSTVTV	
16B6_VH	61 NGKFKGKATLTADKSSSTAYMQLNSLTSEDSAAVFCARSA-TL-PYWFYVWGAGTSTVTV	
17B10_VH	61 NGKFKGKATLTADKSSSTAYMQLNSLTSEDSAVYFCVFGD----GYWAMDYWGQGTSTVTV	
19E12_VH	61 NQKEKKGKATLTADKSSSTAYMELRSLSLTSEDSAVYYCTRG-----AWFAYWGQGTSTVTV	
17G11_VH	61 NQKEKKGAKLTAVTASASTAYMELSSLTNEDSAVYYCTRGGFY-SNYWFAYWGQGTSTVTV	
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-ESALTTSPGETVTLTCRSSTGAVTTS---NSANWVQENPDHFLTGLIGGTNNR	
19B5_VL	1 DIVLTQSPATLSVTPGDVSLSCRASQSI-----NNYLHWYQQRSHESPELLIKFASQS	
5H9_VL	1 DIVMTQAAAFGNPVTLTSAISCSSSKSLHLSN-GVTYLYWYLQRPQGSPQLLIYRMSNL	
17A7_VL	1 DIVMTQAAAFGNPVTLTSAISCSSTKSLHLSN-GITYLYWYLQRPQGSPQLLIYRMSNL	
17B10_VL	1 DIVMTQAAAFGNPVTLTSAISCRFEKSLHLSN-GITYLYWYLQRPQGSPQLLIYQMSNL	
16A1_VL	1 DIVMTQSPSSSLAMSLQQRVTMSCKSSQSLNNSNQNCLAWYQKPKQSPQLLIYFACR	
17G11_VL	1 SIIVMTQTFKFLLVGAGDRVTITCKASQSV-----SNDVAWYQKPKQSPQLLIYASNR	
10B1_VL	1 DIVMTQSQKFMSTSTGDRVSVTCKASQNV-----GTNVAWYQKPKQSPKALIYSASR	
20C7_VL	1 DIVMTQSHKFMSTSVGDRVSVTCKASQDV-----STAVAWYQKPKQSPKLIHSASR	
17E6_VL	1 DIVMTQSHKFMSTSVGDRVSVTCKASQDV-----STAVVWYQKPKQSPKLIYSASR	
16B6_VL	1 DIKMTQSPSSMYASLSEKVTITCKASQDIK-----SYLSWYQKPKWSPNTLIYYATNL	
12H4_VL	1 QIVLTQSPAIMSASPKERVTITCSASSSV-----SLIYWFQKPKGTSPKLIYSTNL	
16E4_VL	1 DIVLTQSPASLAVSLCQPATISCRASQSVDYAG--DSYMNWYQKPKQPPKLIHYAASNL	
16G9_VL	1 DIVLTQSPASLAVSLCQPATISCRASQSVSTSS--YSYMHWYQKPKQPPKLIHYAASNL	

	CDRL3
19E12_VL	57 AFGVPAFSGSLIGDKAALTITGAQTEDEAIYFCALWYNNHVFVGGGTTLTVL
19B5_VL	55 ISDIPSRFSGSGSGTDFTLISINSIETEDFGMYFCQQSNSWPLTFGASTKLEIK
5H9_VL	60 ASGVPDFRFGSGSGTDFTLRISRVEAEDVGVIYCAQMLERPPTFGSGTKLEIK
17A7_VL	60 ASGVPDFRFGSGSGTDFTLRISRVEAEDVGVIYCAQMLERPPTFGSGTKLEIK
17B10_VL	60 ASGVPDFRFGSGSGTDFTLRISRVEAEDVGVIYCAQNLRLPWTFGGGTKLEIK
16A1_VL	61 ESGVPDRFISGSGTDFTLTISSVQAEDLAYYFCQQHCNTPLTFGAGTKLEIK
17G11_VL	55 YTGVPDRFTGSGSGTDFTLTITNVQSEDLAIFYCQQYNNRPITFGSGTKLEIK
10B1_VL	55 YTGVPDRFTGSGSGTDFTLTITNVQSEDLAIFYCQQYNNRPITFGSGTKLEIK
20C7_VL	55 YTGVPDRFTGSGSGTDFTLTISSVQAEDLAYYFCQQHYSTPPTFGSGTKLEIK
17E6_VL	55 YTGVPDRFTGSGSGTDFTLTISSVQAEDLAYYFCQQHYSTPPTFGSGTKLEIK
16B6_VL	55 ADGVPSRFSGSGSGQDYSLTISLGSDDTATYYCLQHVESPWTFGGGTLEIK
12H4_VL	54 ASGVPAFSGSGSGTSTSYSLTISRMEALDAATYYCQQRSGYPPTFGGGTKLEIK
16E4_VL	59 ESGIPARFSGSGSGTDFTLNIHPVEEEDAATYYCQQTNEPPTFGGGTKLEIK
16G9_VL	59 ESGVPAFSGSGSGTDFTLNIHPVEEEDAATYYCQHSWEIPPTFGGGTKLEIK

FIG. 8A

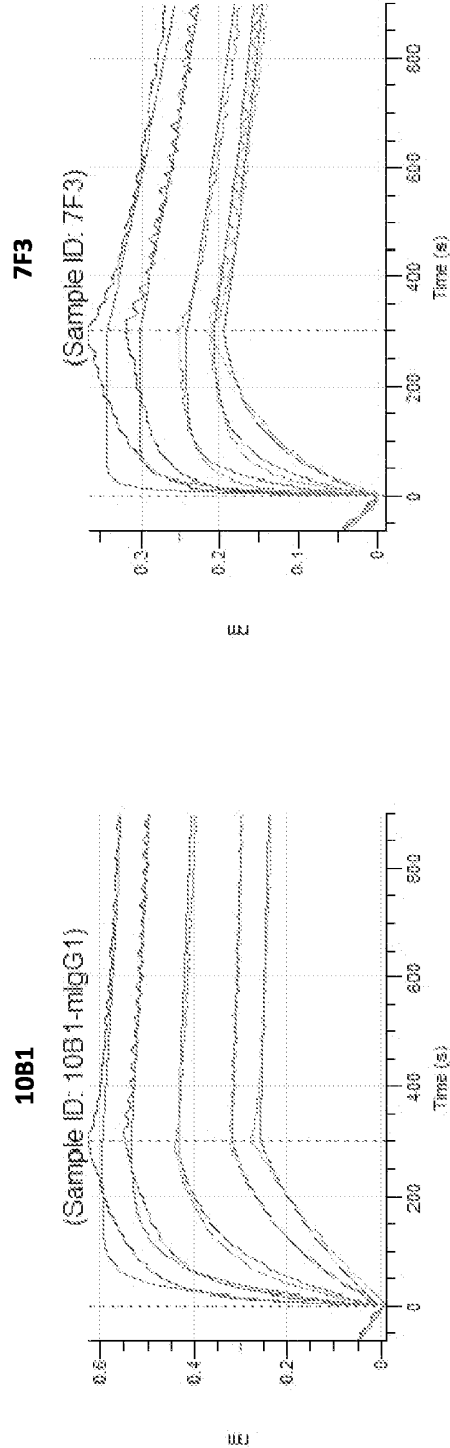
	CDRH1	CDRH2
10B1_VH	1 QVQLKQSGPGLVQPSQSLITCTVSDFLSSEGVNHWVRQPPKGLLEWLCVIWSS-GSTDY	
19B5_VH	1 DVNLVESGGGLVVKLGGSLKLSCAASGFTFSNYIMSWVRQSPFKRLWVATISNNGDSTYY	
16G9_VH	1 EVQLQQSGPELVKPGASVKMSCKASGYTFTDYIMNWVKQSHCKSLEWIGRVNPNNGCKTY	
16A1_VH	1 QVQLQQSDAELVKPGTSTVKISCKASGYTFTDHGHNWVKQKPERGLEWIGNISPGNGUIKY	
20C7_VH	1 EVQLQQSGPELVNPGASVKMSCKASGYTFTAYVMHWVKQKPGQGLEWIGYIFPYNDGTEY	
17E6_VH	1 EVQLQQSGPELVKPGASVKMSCKASGYTFTSYVIHWVKQKPGQGLEWIGYINPYSDYTQY	
16E4_VH	1 QVQLQQPGAEVLKPGASVKLSCKASGYTFTSYWMHWVKQRPGQGLEWIGELDFASASYTY	
12H4_VH	1 EVQLQQSGPELVKPGASVKVSKASGYTFTDYIINWVKQRPGQGLEWIGELIYFGSDUAYY	
5H9_VH	1 QVQLQQSGPDLVNPAGASVKISCKASGYAFSTYWMNWVKQRPGQGLEWIGRIFFPGDGDANY	
17A7_VH	1 QVQLQQSGPELVKPGASVKISCKASGYAFSTYWMNWVKQRPGQGLEWIGRIFFPGDGDY	
16B6_VH	1 QVQLQQSGPELVKPGASVKISCKASGYAFSRSWNWVKQRPGQGLEWIGWIYFGDGDY	
17B10_VH	1 QVQLQQSGPELVKPGASVKISCKASGYAFSSYWLNWVKQRPGQGLEWIFGRIYFGDGDY	
19E12_VH	1 QVQLQQSGAEVLKPGASVKLSCKASGYTFTDYEMHWVRQTPVHGLEWIGGIDPETGGTAY	
17G11_VH	1 EVQLQQSGTVLARGASVKMSCKASGYTFTSYWMHWVKQRPGQGLEWIGAIYFGNSDTSY	
	CDRH3	
10B1_VH	60 NVAFISRLSISKUNSKSQVFTKMNNIQAQDTAIYYCARNWRYDGYFYAMDYWGQGTSTVTV	
19B5_VH	61 LDTVSGRFTISRDSAENTLYLQMSGLISEDTAVYYCTRVGT-----GFTYWGQGTSLVTV	
16G9_VH	61 NQKFKGKATLTVDKSLSTAYMQLNSLTSEDSAVYYCARWRLRP-VDYGMUYWGQGTSTVTV	
16A1_VH	61 NEKFKGKATLTADKSSSFVYMCVNSLTSEDSAVYFCTT-----YFVDWGRGTLVTV	
20C7_VH	61 NEKFKGKATLTSDKSSSTAYMELSSLTSEDSAVYYCARRTDGN-P-YTMDYWGQGTSTVTV	
17E6_VH	61 NEKFKGKATLTSDKSSSTAYMELSSLTSEDSAVYSCARADGN-P-YAMUYWGQGTSTVTV	
16E4_VH	61 NQKFKGKATLTVDKSSSTAYMQLSSLTSEDSAVYYCARSV-YY-GNKYFEVWGAGTITVTV	
12H4_VH	60 NEKFKGKATLTADKSSSTAYMQLSSLTSEDSAVYFCTRETETA-----TAYWGQGTSLVTV	
5H9_VH	61 NGKFKGKATLTADKSSSTAYMQLSSLTSEDSAVYFCTRTGAAY-DFDPEPYWGQGTSLVTV	
17A7_VH	61 DGKFKGKATLTADKSSNTAYMQLSSLTSEDSAVYFCARTGAAY-EFDPEPYWGQGTSLVTV	
16B6_VH	61 NGKFKGKATLTADKSSSTAYMQLSSLTSEDSAAVFCARSA-TL-PYWFYFVWGAGTITVTV	
17B10_VH	61 NGKFKGKATLTADKSSSTAYMQLRLSLTSEDSAVYFCVIGD----GYWAMUYWGQGTSTVTV	
19E12_VH	61 NQKFKGKATLTADKSSSTAYMELRLSLTSEDSAVYYCTPG-----AWFAYWGQGTSLVTV	
17G11_VH	61 NQKFKGKAKITAVTSASTAYMELSSLTNEDSAVYYCTRGGFEDY-SNYWFAYWGQGTSLVTV	
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-ESALTTSPGETVTLTCSRSGTGAVTTS---NSANWVQEKPDHLFTGLIGGTNNR	
19B5_VL	1 DIVLTQSPATLSVTPGDSVSLSCRASQSI-----NNYLHWYQQRSHESPRELLIKFASQS	
5H9_VL	1 DIVMTQAAFENPVTLTTSASISCSSEKSLLSHN-GVTYLYWYLQRPGQSPQLLIYRMSNL	
17A7_VL	1 DIVMTQAAFENPVTLTTSASISCSSTKSLLSHS-GITYLYWYLQRPGQSPQLLIYRMSNL	
17B10_VL	1 DIVMTQAAFENPVTLTTSASISCRFSKSLLSHN-GITYLYWYLQRPGQSPQLLIYQMSNL	
16A1_VL	1 DIVMTQSPSSSLAMSIGQKVTMSCKSSQSLNSNNQKNCLAWYQQNPGQSPRELLIXEACTR	
17G11_VL	1 DIVMTQTPKELLVSAQDRVTITCKASQSV-----SNDVAVYQQKPGQSPKLLIYASNR	
10B1_VL	1 DIVMTQSQKFMSTSTGDPVSVTCKASQNV-----GTNVARYQQKPGQSPKALIYSASYR	
20C7_VL	1 DIVMTQSHKFMSTSVCDRVSTTCKASQDV-----STAVAVYQQKPGQSPKLLIHSASYR	
17E6_VL	1 DIVMTQSHKFMSTSVGDRVSTTCKASQDV-----STAVVWYQQNPGQSPKLLIYSASYR	
16B6_VL	1 DIKMTQSPSCMYASLGERVTTTCKASQDIK-----SYLSWYQQKPKSPKTLIYYATNL	
12H4_VL	1 QIVLTQSPATMSASPCKVTTITCSASSSV-----SLIYWFOQKPGTSPKLLIYSTGNL	
16E4_VL	1 DIVLTQSPASLAVSLQQRATISCRASQSVDIAG--DSYMNWYQQNPGQSPKLLIYAAASNL	
16G9_VL	1 DIVLTQSPASLAVSLQQRATISCRASQSVSTSS--YSYMHWYQQKPGQSPKLLIKYASNL	
	CDRL3	
19E12_VL	57 APGVPARFSGSLIGDKAALTITGAQTEDEAIYFCALWYNNHFVFCGGSTKLTVL	
19B5_VL	55 ISDIPSRFSGSGSGTDFTLTLSINSITEDFGMYFCQDSNSWPLTFPGAGTKLEIK	
5H9_VL	60 ASGVPRDFSGSGSGTDFTLRISRVEAEDVGGIYCAQMLERPTFGSGTKLEIK	
17A7_VL	60 ASGVPRDFSGSGSGTDFTLRISRVEAEDVGVVYCAQMLERPTFGSGTKLEIK	
17B10_VL	60 ASGVPRDFSSSGSGTDFTLRISRVEAEDVGVVYCAQNLLELPWFEGGSTKLEIK	
16A1_VL	61 ESGVPRDFISGSGSGTDFTLTITSSVQAEDLAVYFCQGHCHNTPLTFPGAGTKLEIK	
17G11_VL	55 YTGVPDRFTGSGYGTDFTTITSTVQAEDLAVYFCQGDYS-SYTFGGSTKLEIK	
10B1_VL	55 FIGVPRDFTGSGSGTDFTLTITNVQSDLAIEYFCQYNNRNPITFGSGTKLEIK	
20C7_VL	55 YTGVPDRFTGSGSGTDFTFTITSSVQAEDLAVYFCQGHYSTPTFGSGTKLEIK	
17E6_VL	55 YTGVPDRFTGSGSGTDFTFTITSSVQAEDLAVYFCQGHYSTPTFGSGTKLEIK	
16B6_VL	55 ADGVPSRFSGSGSGQDYSLTITSSLSGSDITATYYCLQHVESPWTFGGSTKLEIK	
12H4_VL	54 ASGVPARFSGSGSGTSSYSLTISRMEADAATYYCQQRSGYPTFGGSTKLEIK	
16E4_VL	59 ESGIFARFSGSGSGTDFTLNHPVEEDDAATYYCQQTNEDEPTFGGSTKLEIK	
16G9_VL	59 ESGVPARFSGSGSGTDFTLNHPVEEDDAATYYCQHSWEIPTFGSGTKLEIK	

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

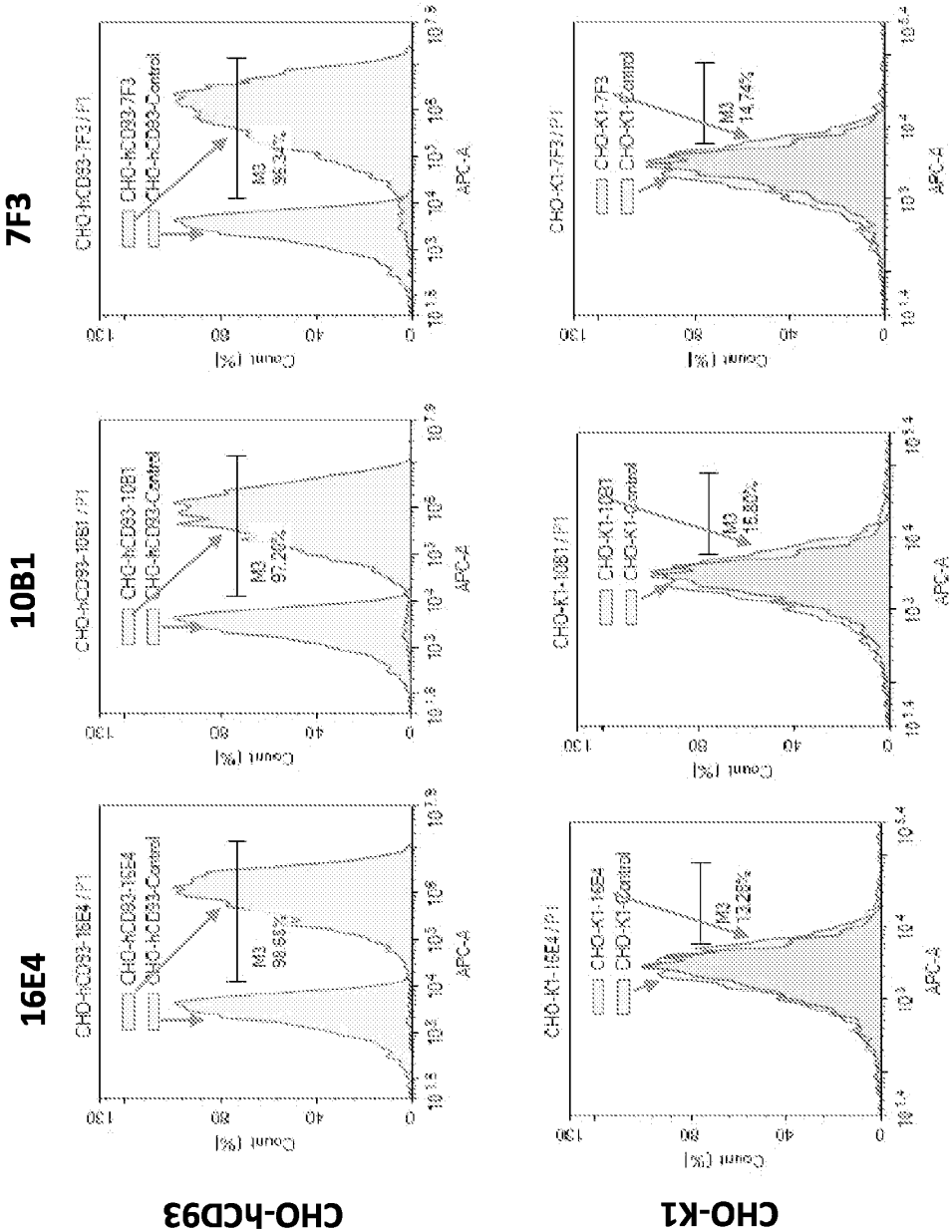


FIG. 11A

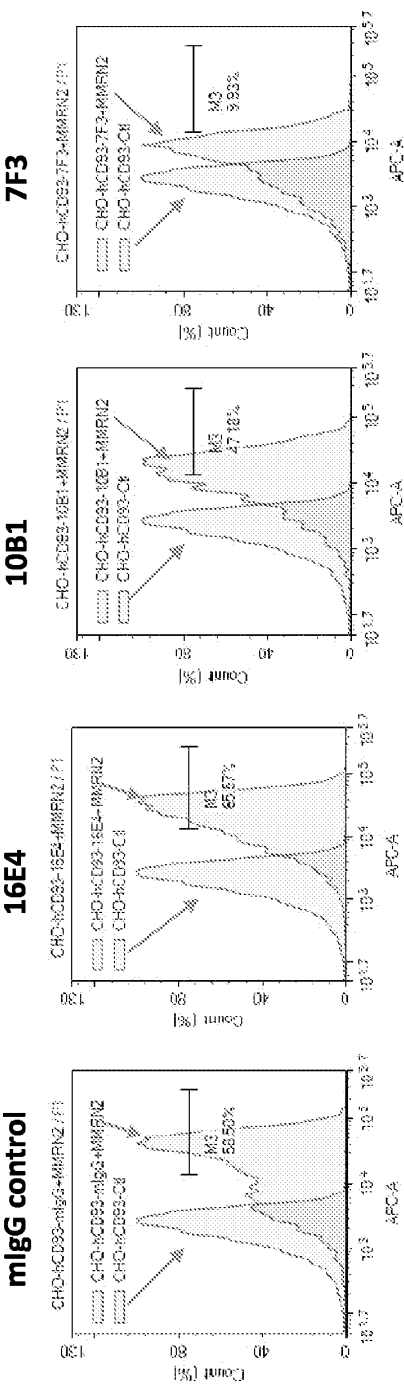


FIG. 11B

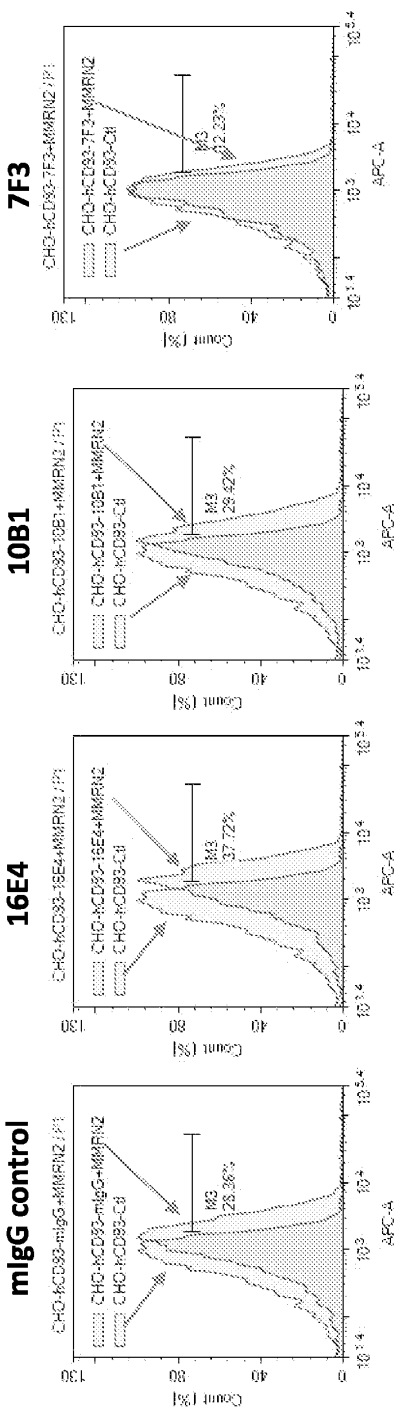
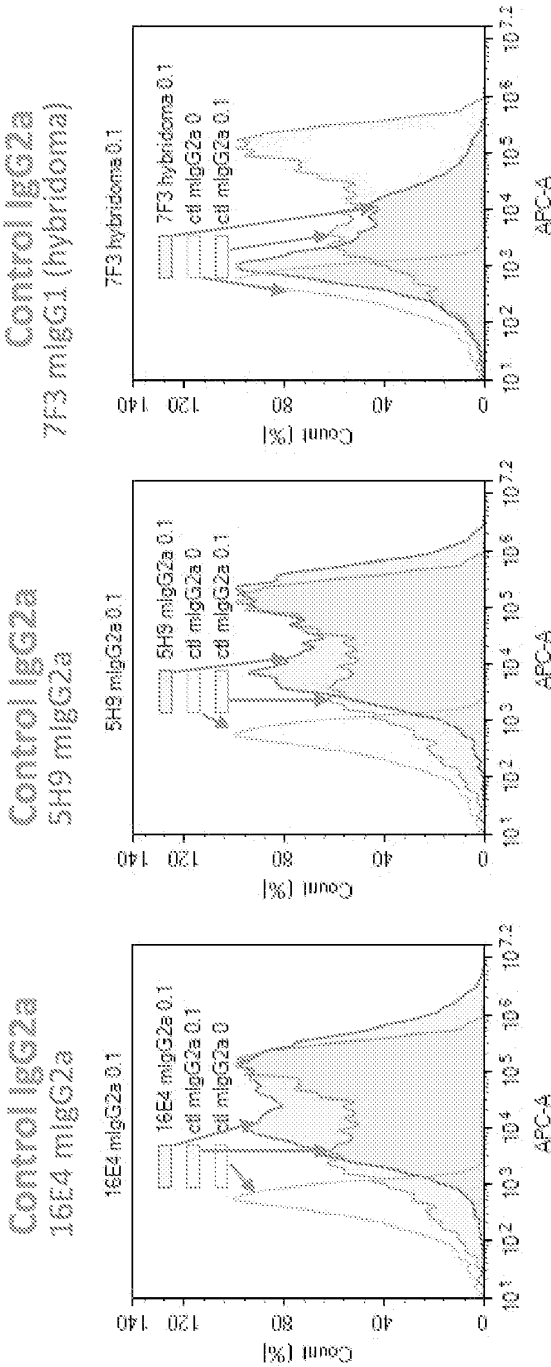


FIG. 12

0.1 ug/ml
MMRN2⁴⁹⁵⁻⁶⁷⁴



0.5 ug/ml
MMRN2⁴⁹⁵⁻⁶⁷⁴

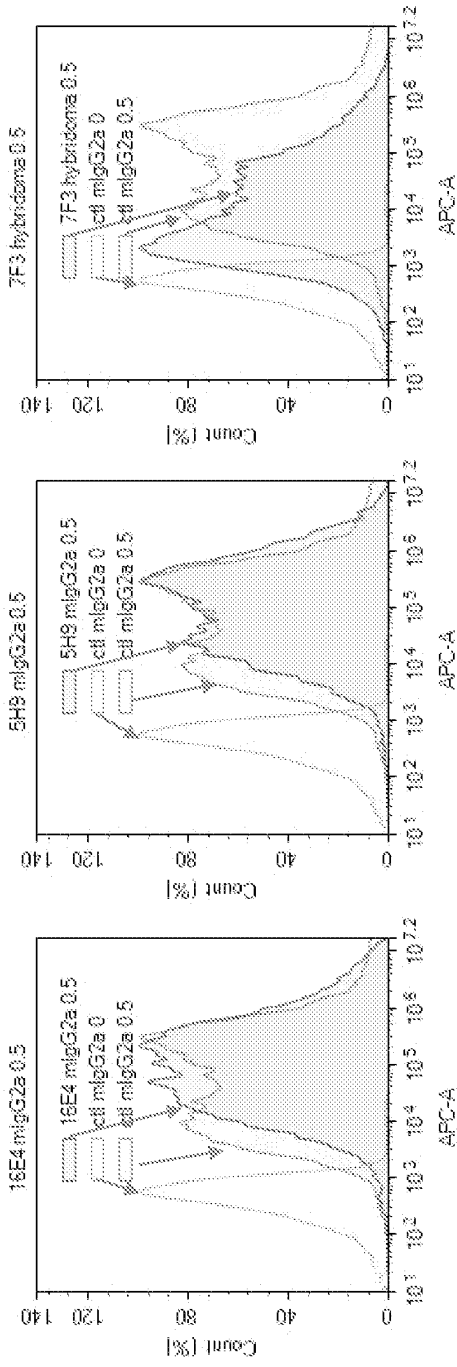


FIG. 13

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

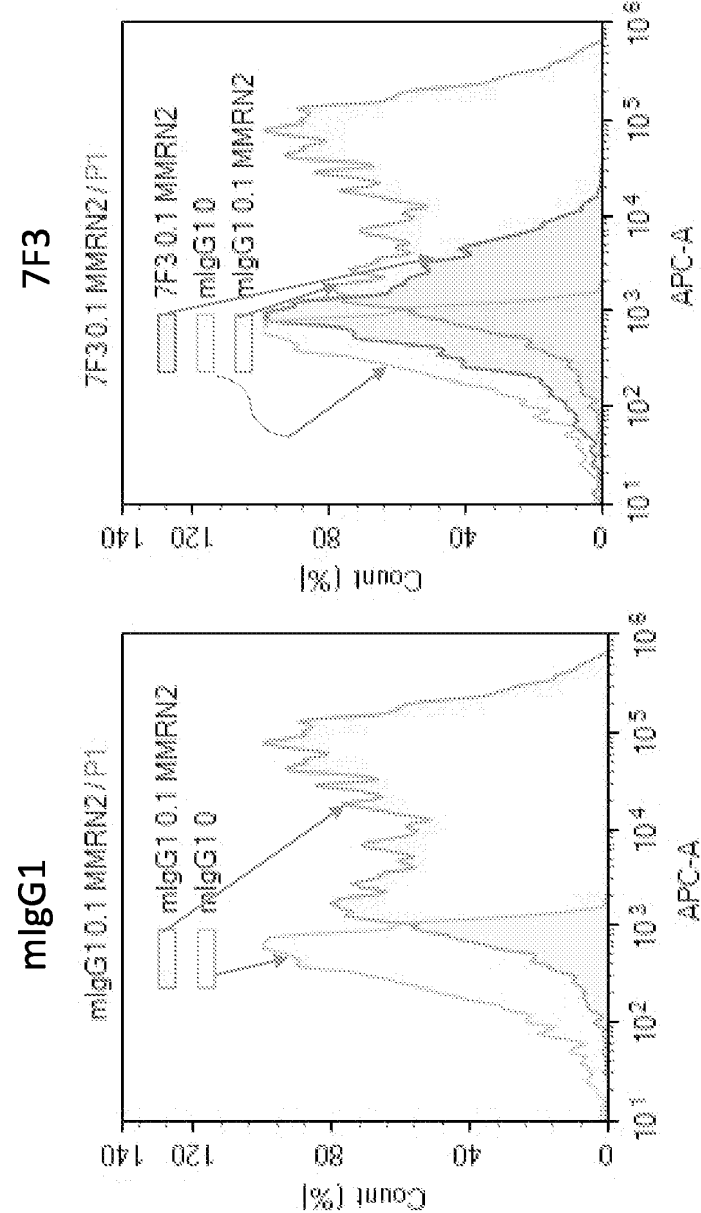


FIG. 14

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

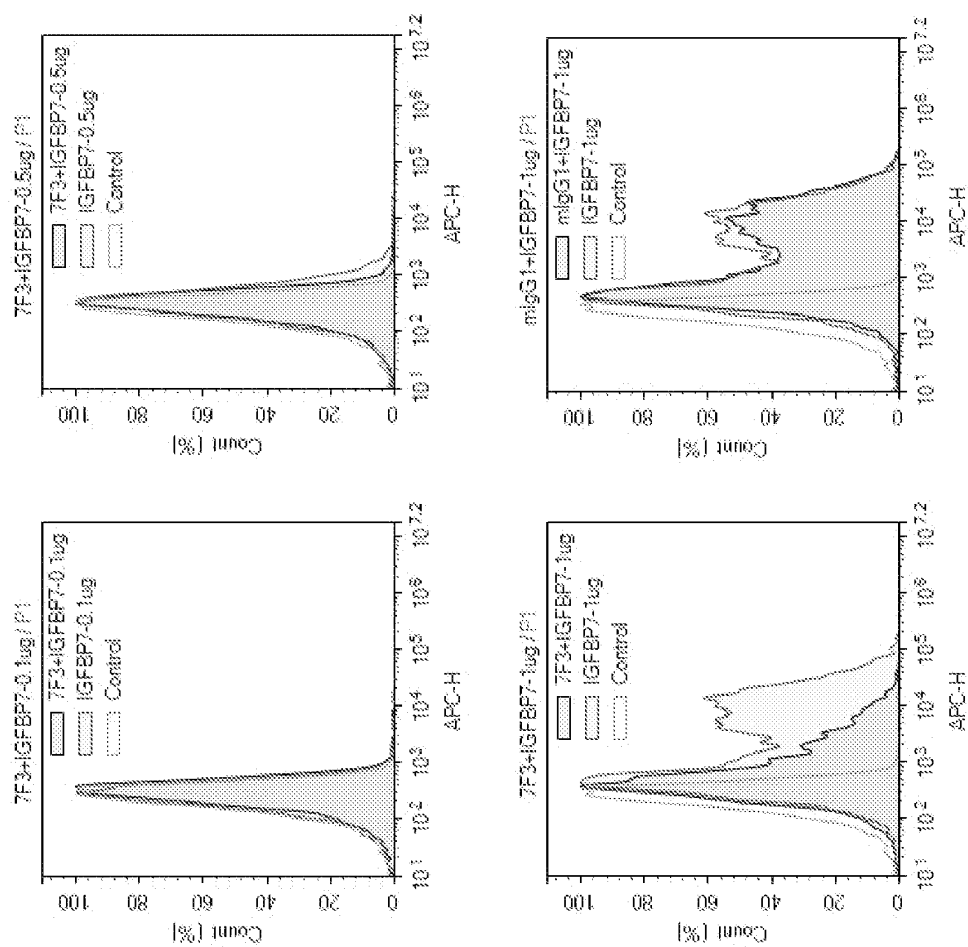


FIG. 15A

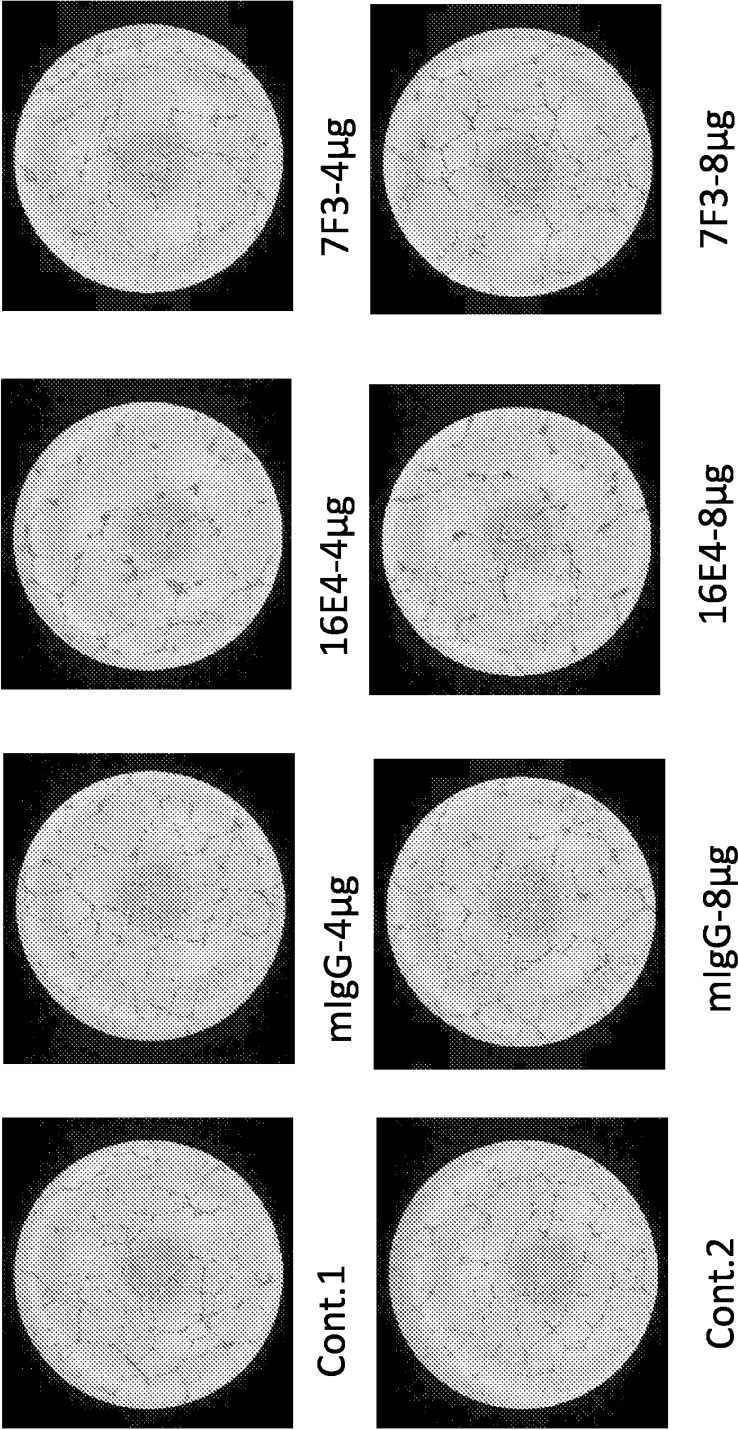


FIG. 15B

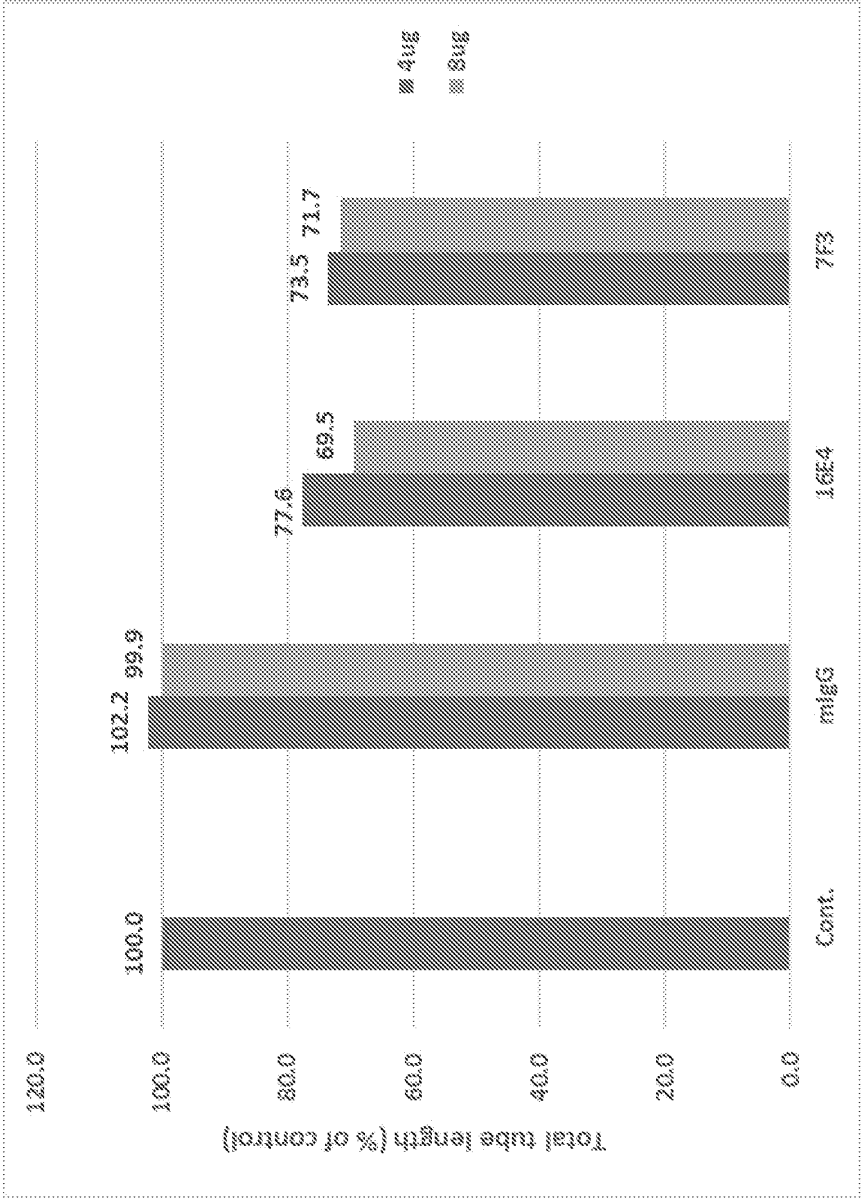


FIG. 16

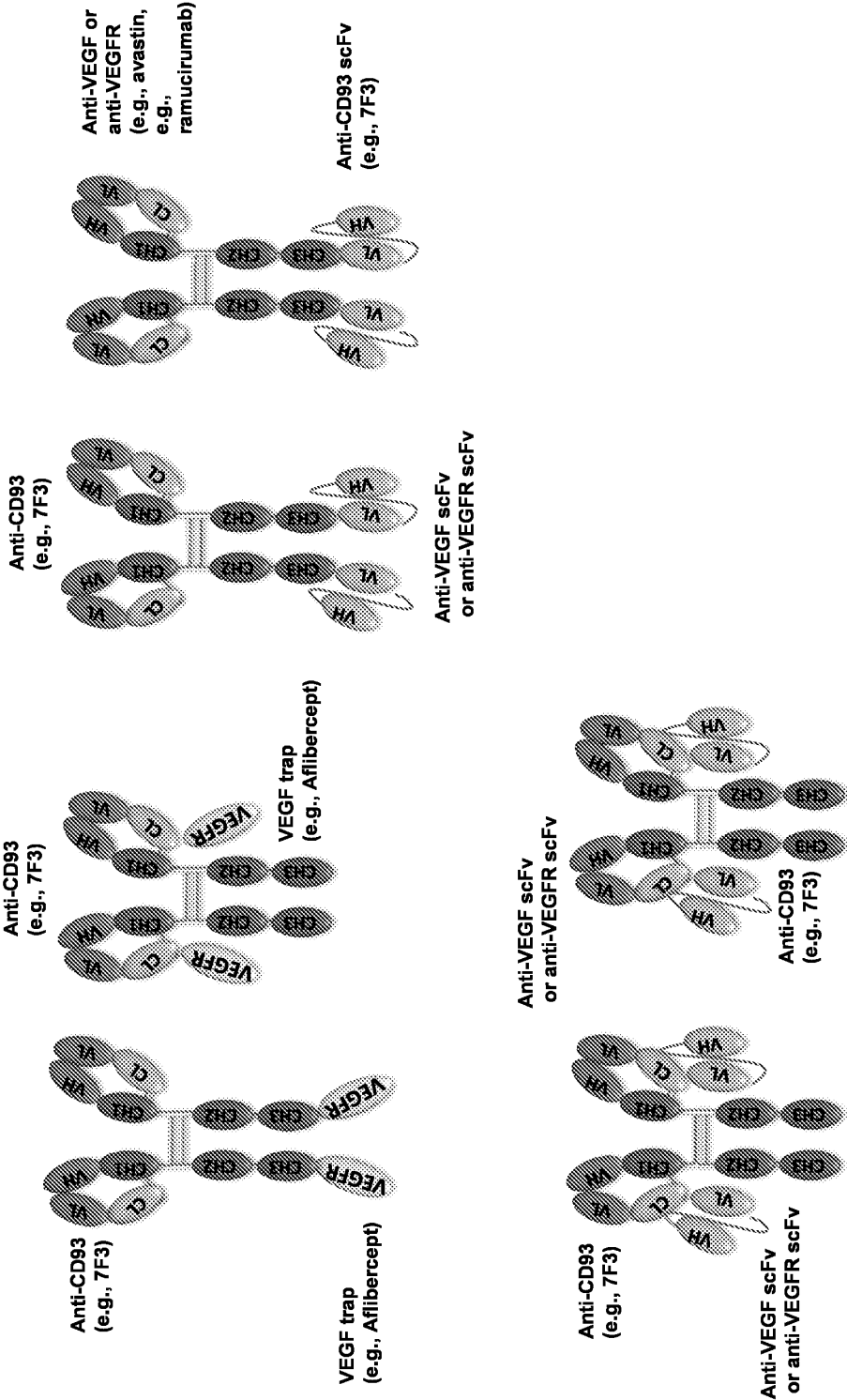


FIG. 17

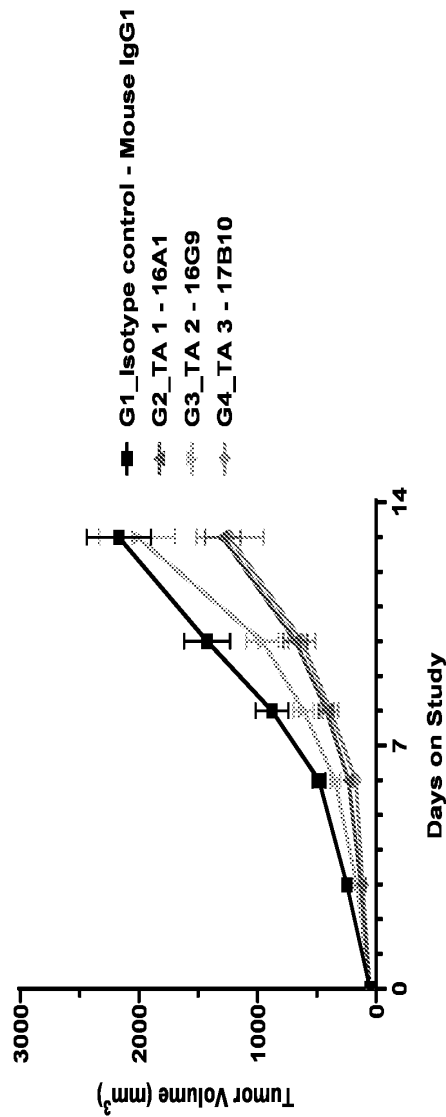


FIG. 18

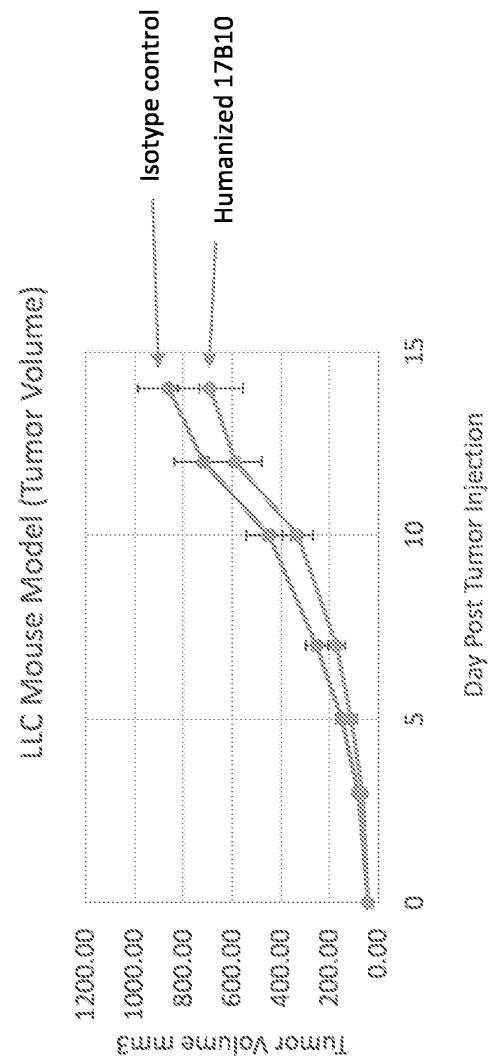


FIG. 19

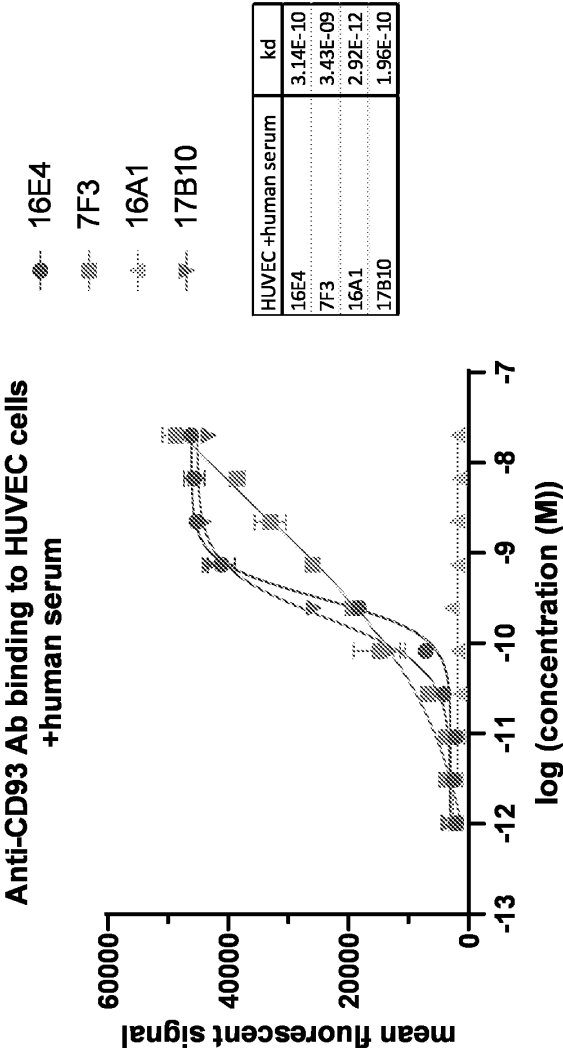


FIG. 20

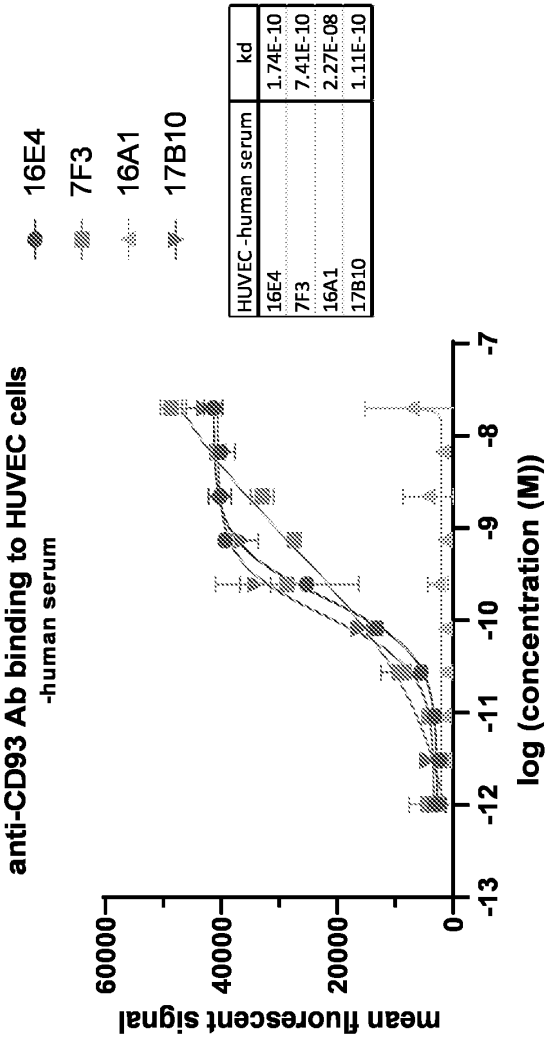


FIG. 21

Anti-CD93 Ab binding curves
humanCD93 CHO cells

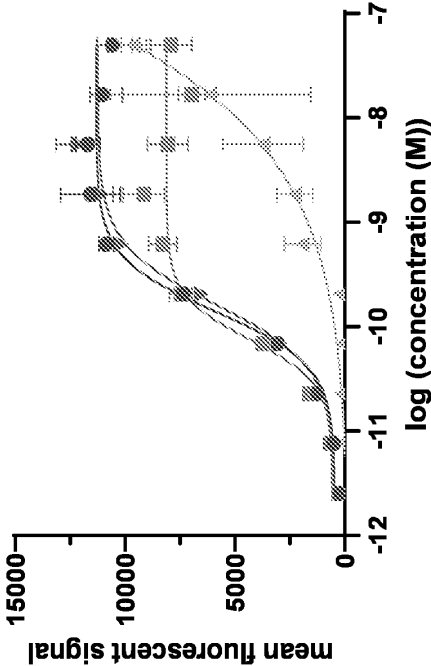


FIG. 22

anti-CD93 Ab binding curves
U937 cells -human serum

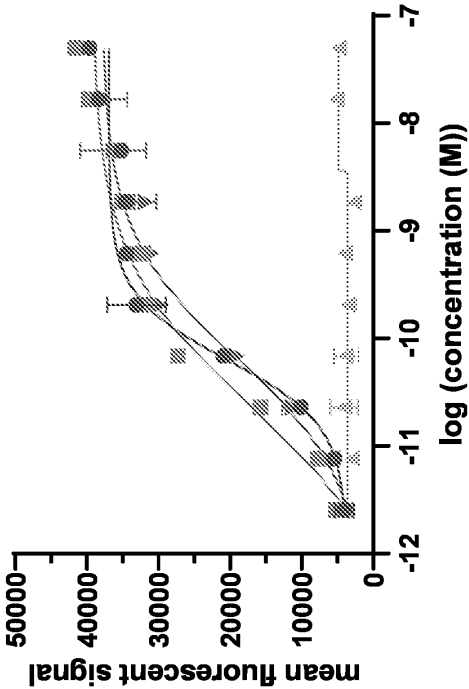


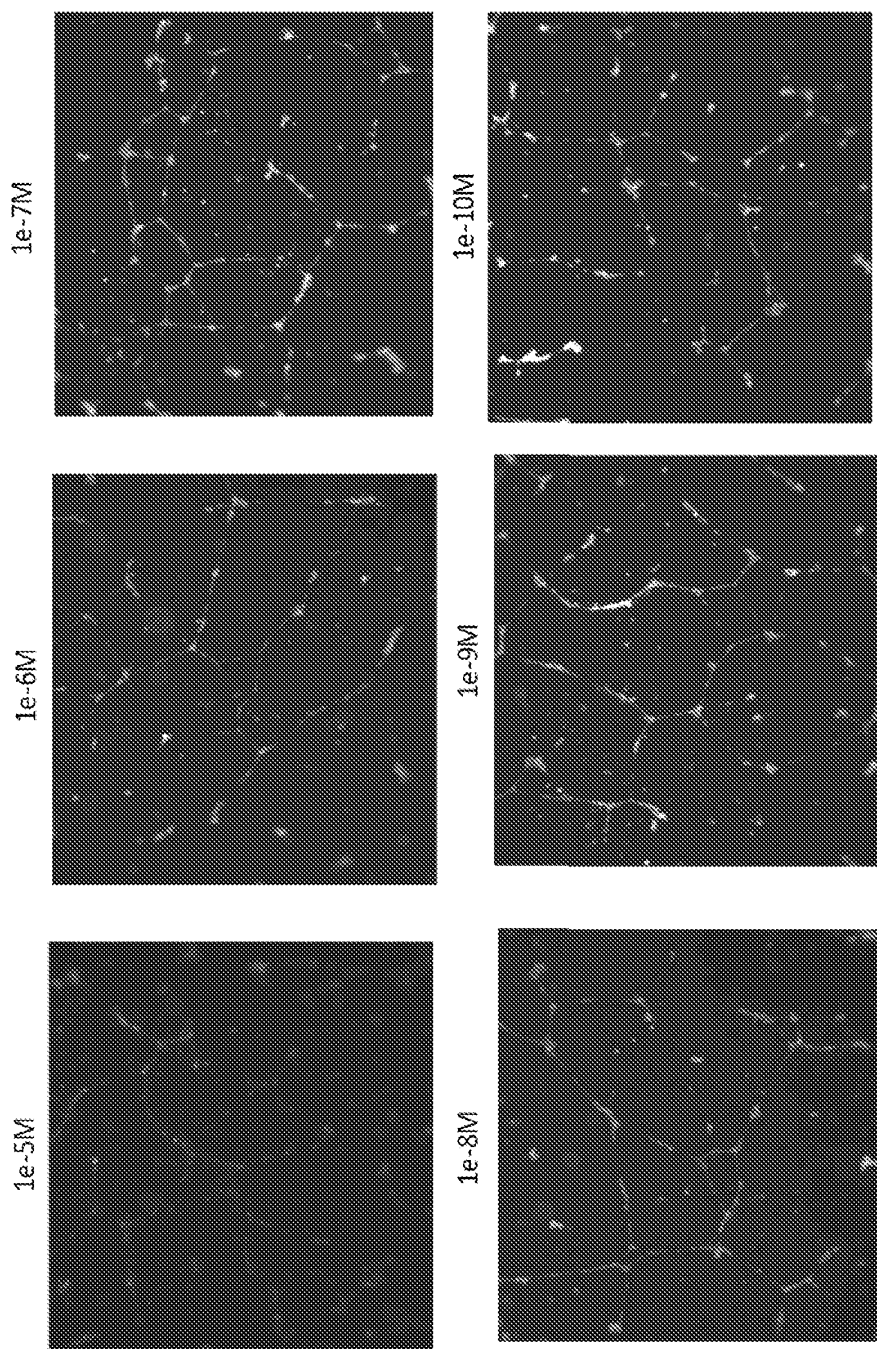
FIG. 23**17B10 (humanized, mouse IgG1, H3L3)**

FIG. 24

stained with calceinAM 30min
counted by eye
HUVEC tubule assay

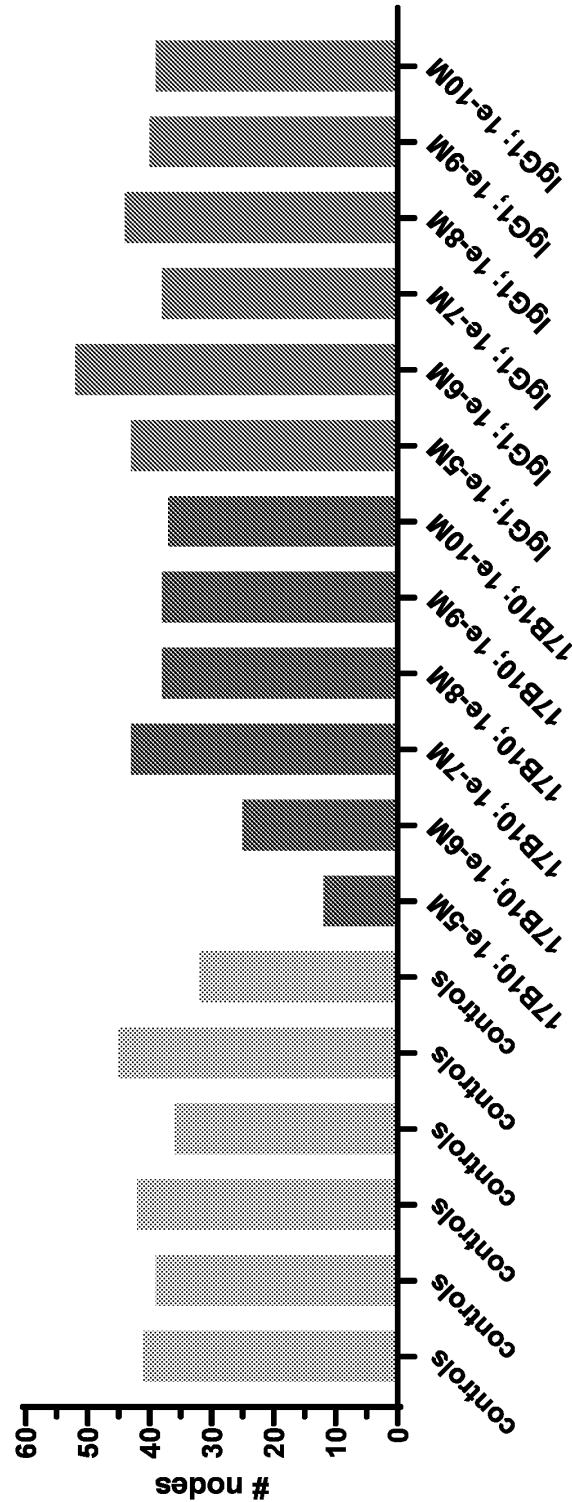


FIG. 25A

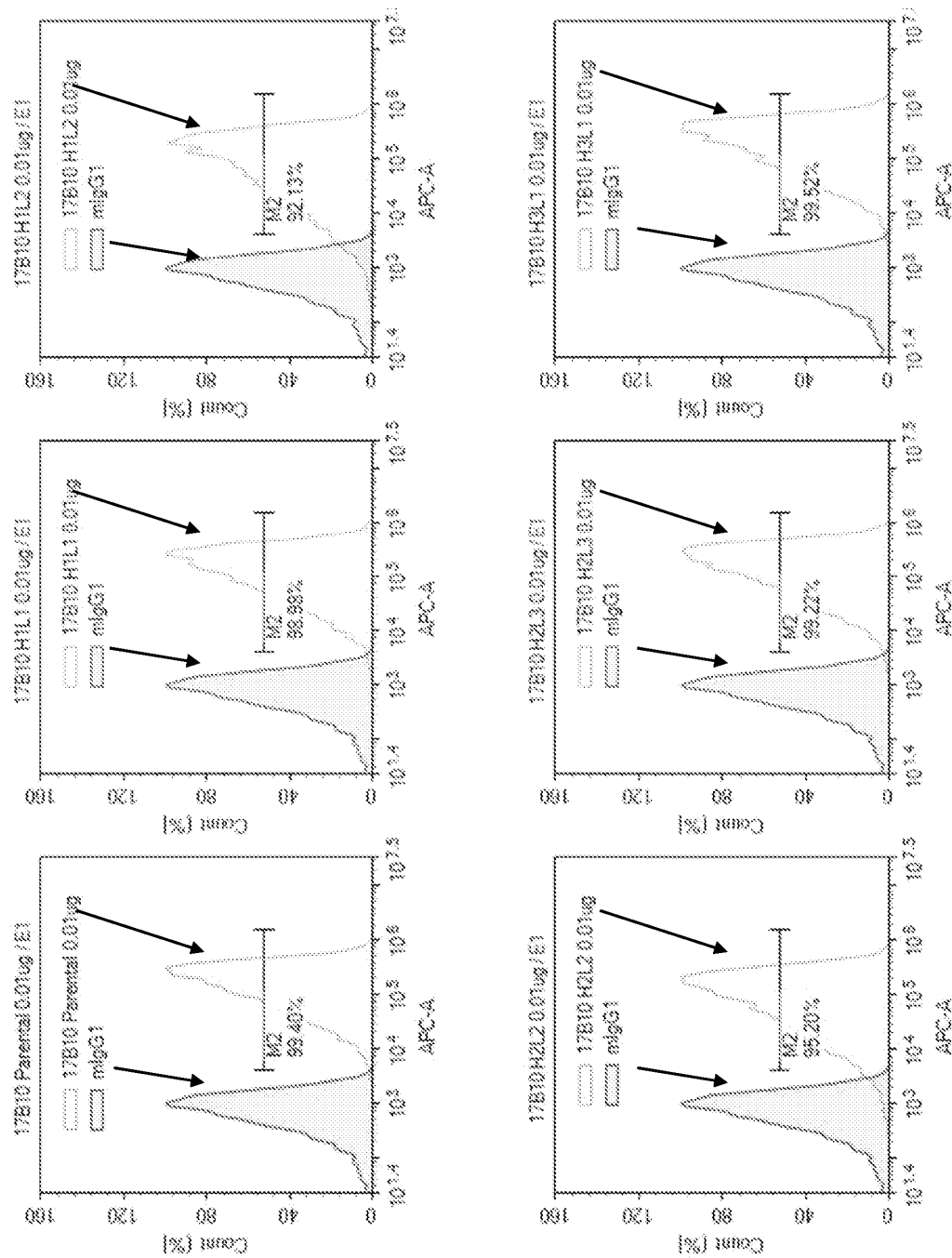


FIG. 25B

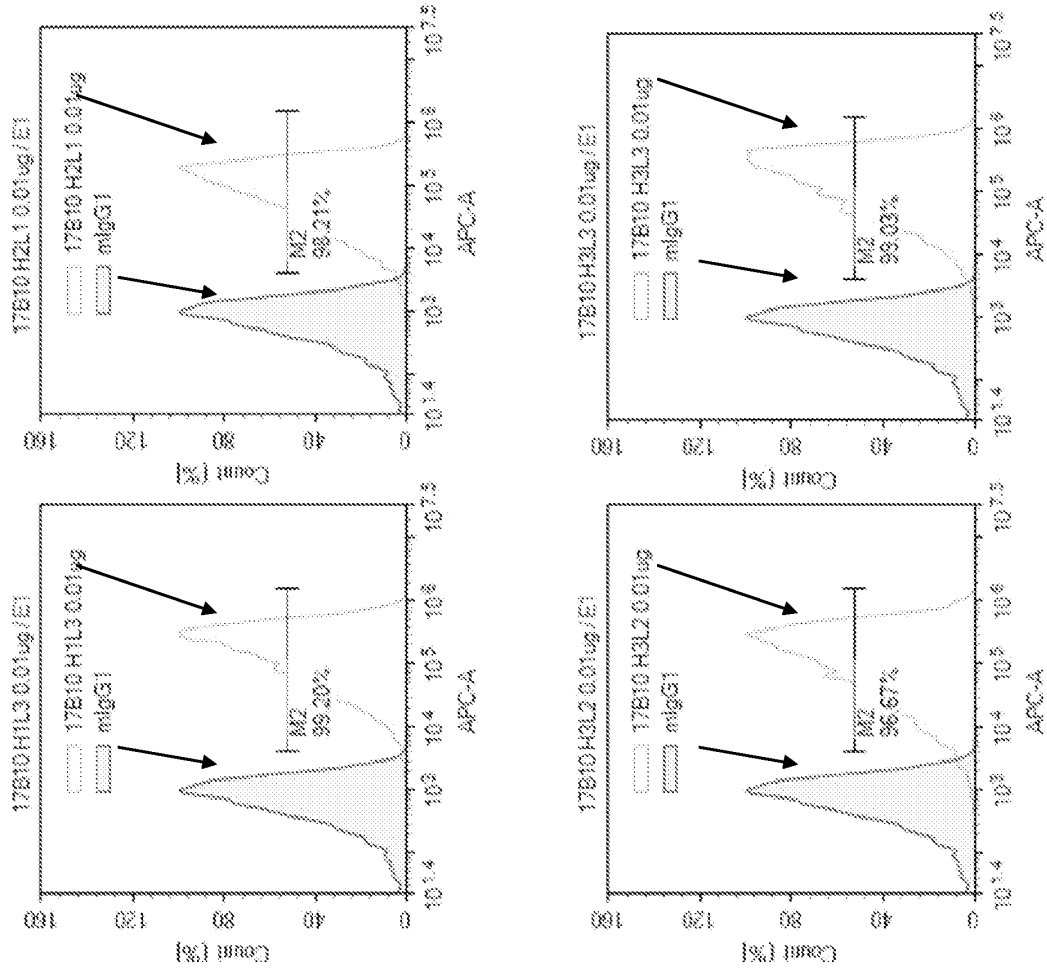


FIG. 26A

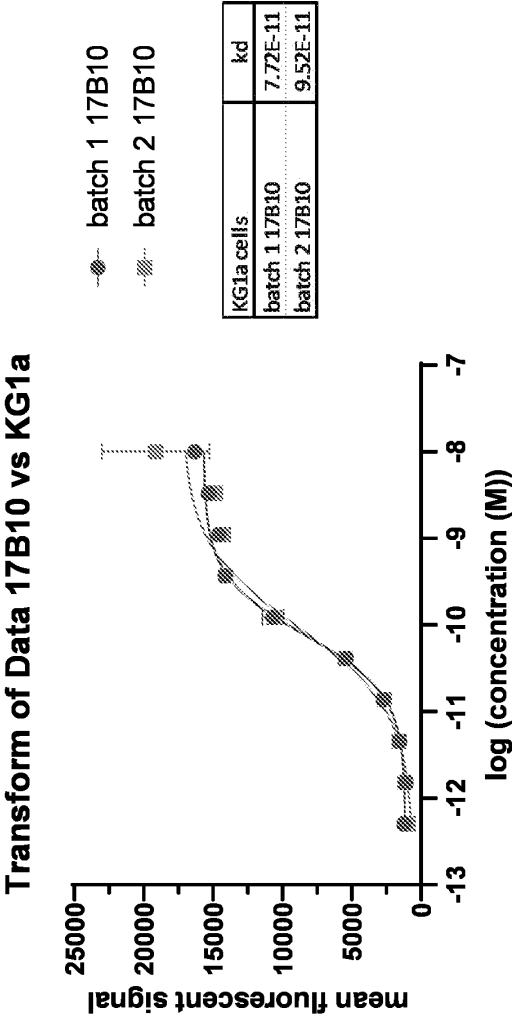


FIG. 26B

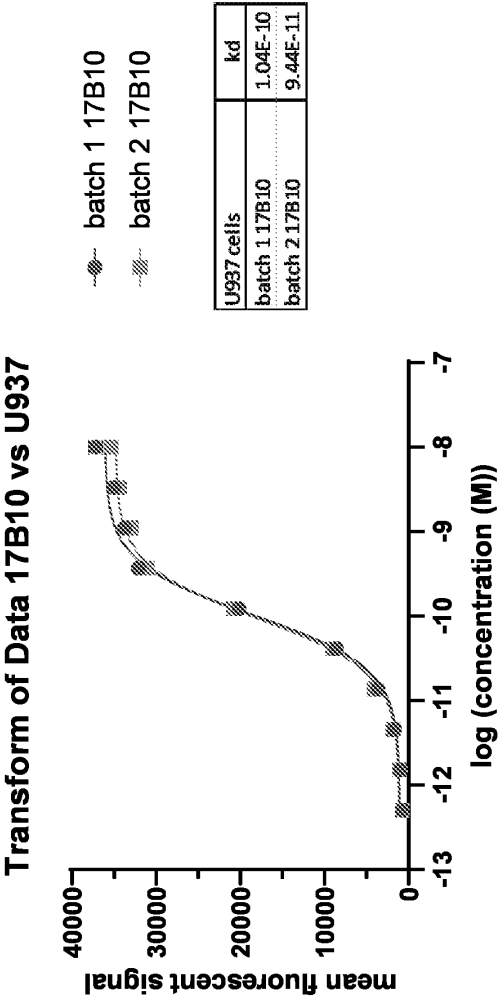
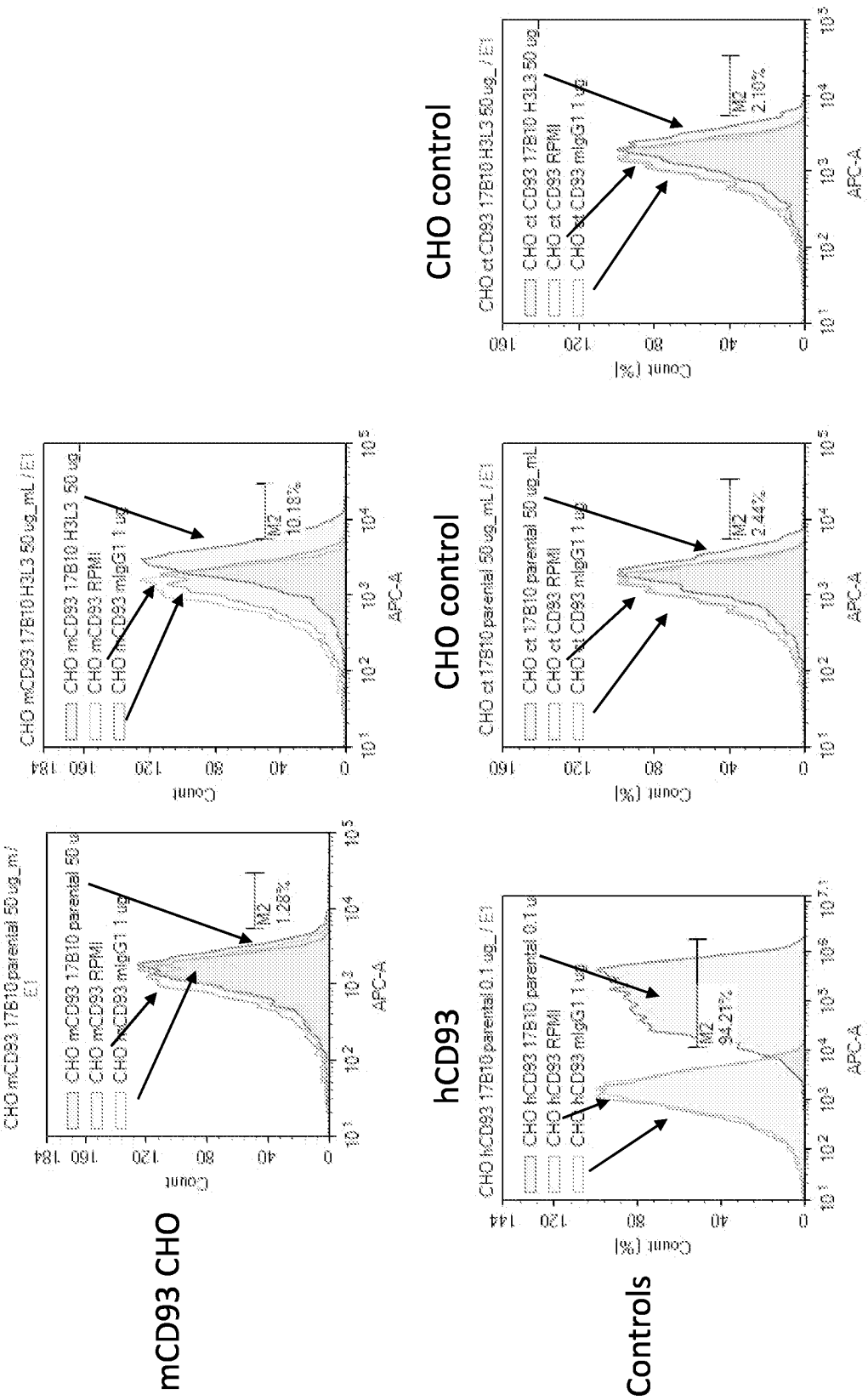


FIG. 27



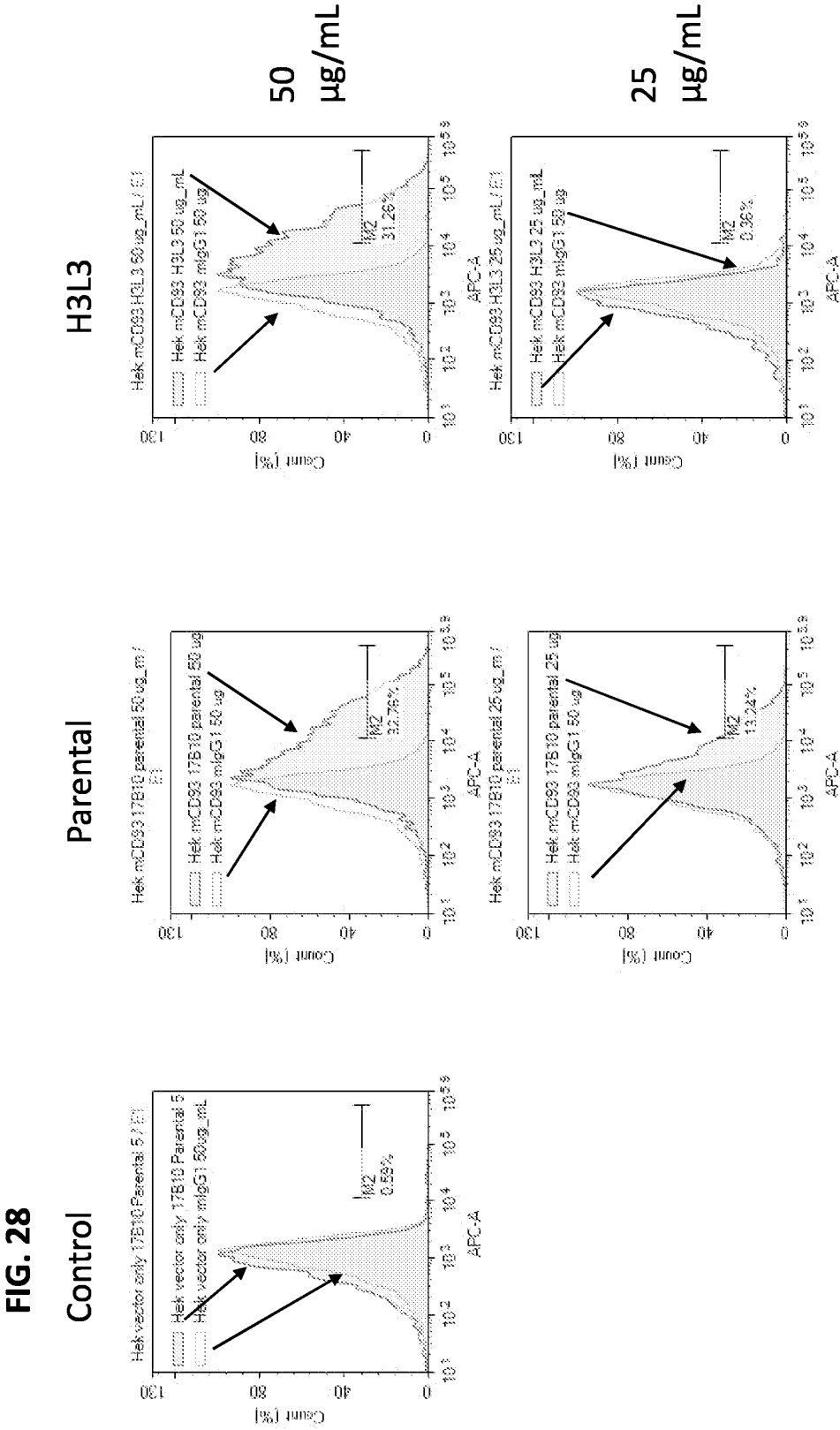


FIG. 29

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

Humanized 16E4: h16E4
Humanized 7F3: h7F3

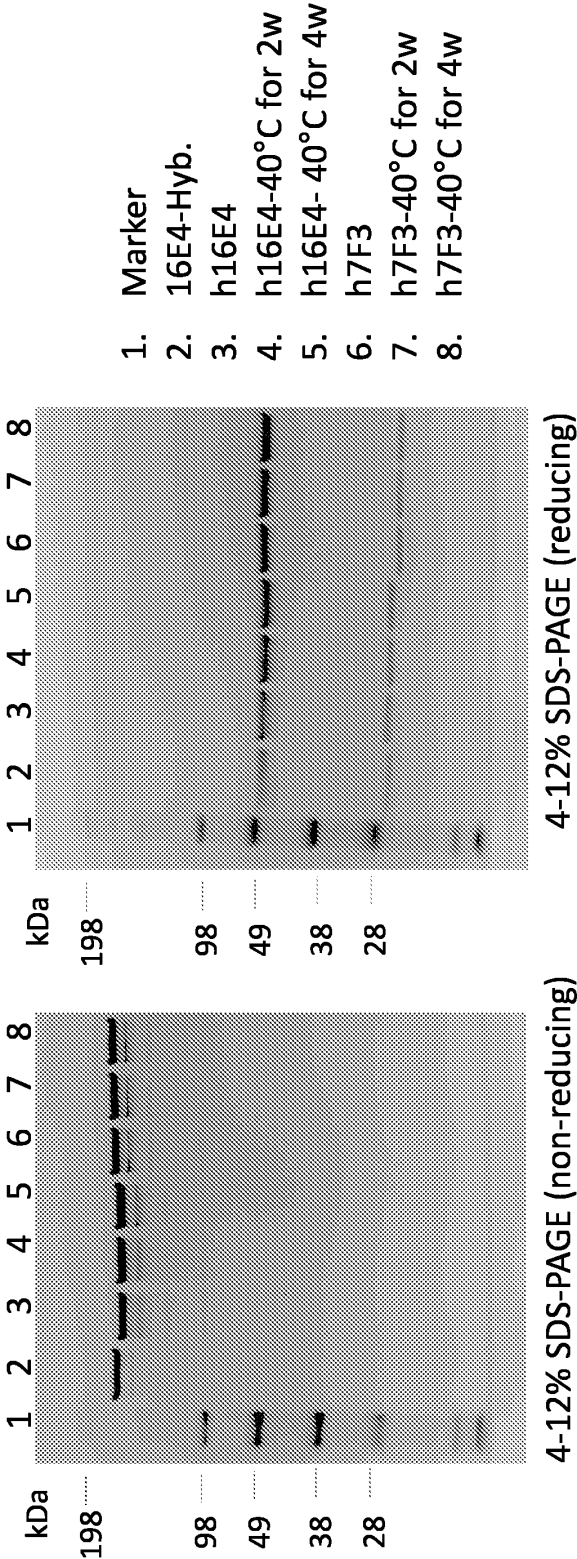


FIG. 30

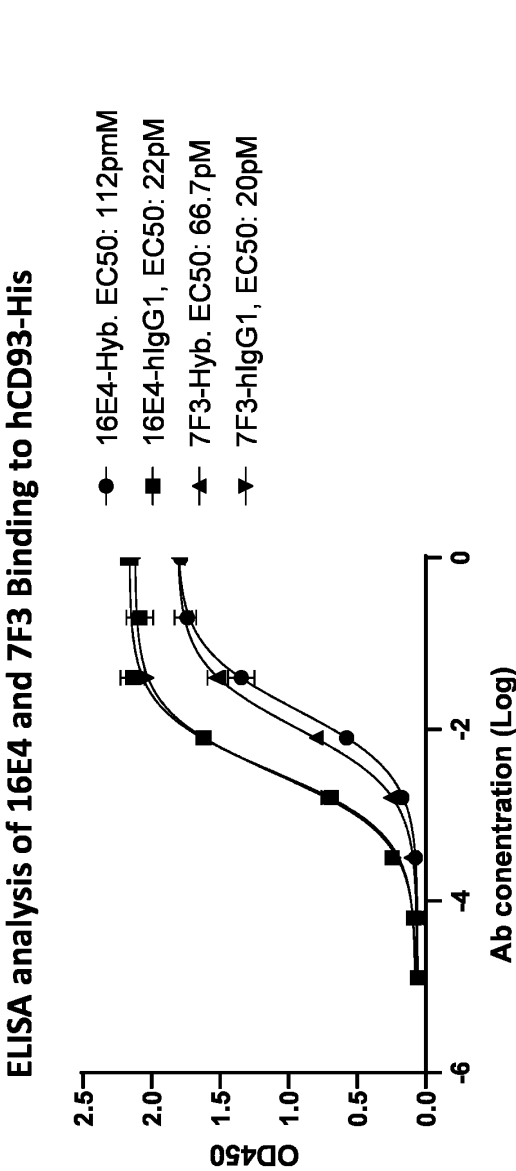


FIG. 31

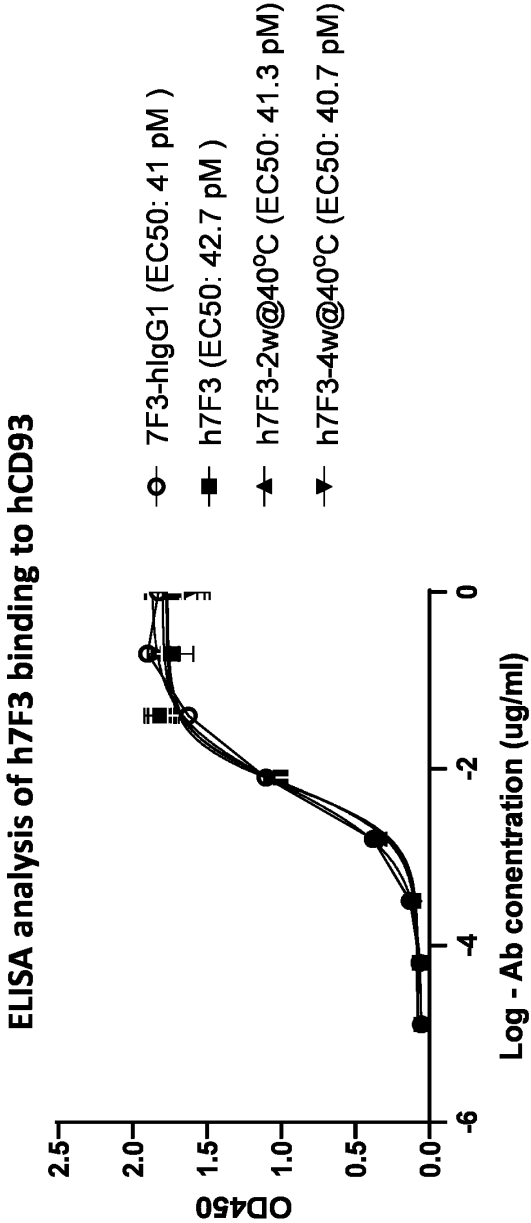


FIG. 32

ELISA analysis of h16E4 binding to hCD93

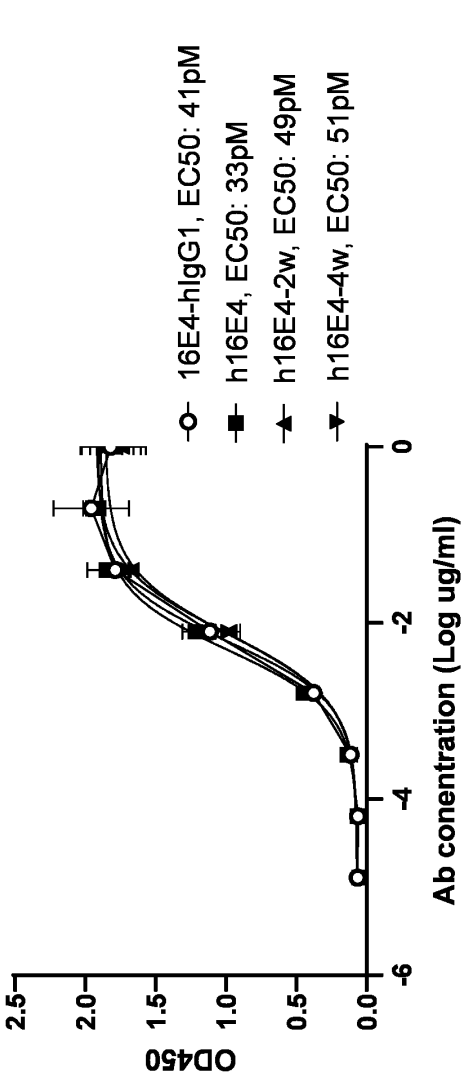


FIG. 33

ELISA analysis of 17B10 binding to hCD93

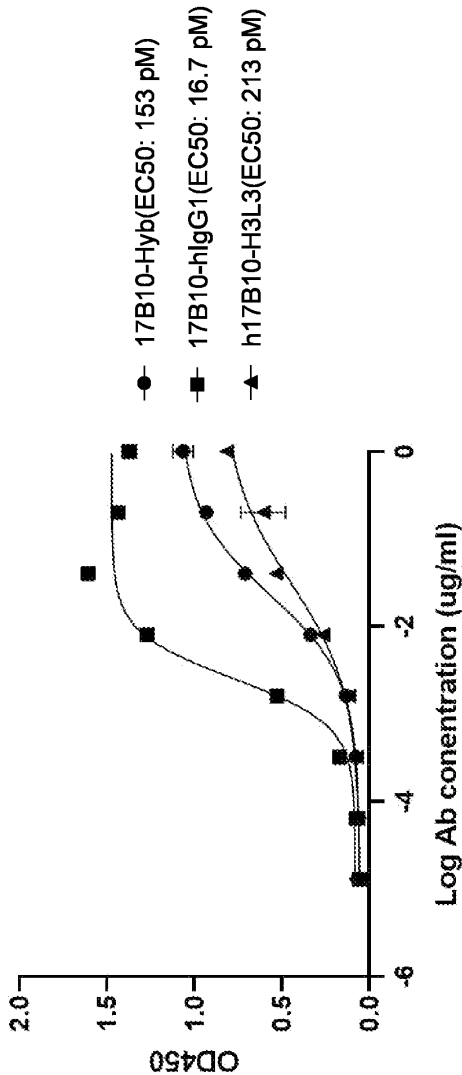


FIG. 34

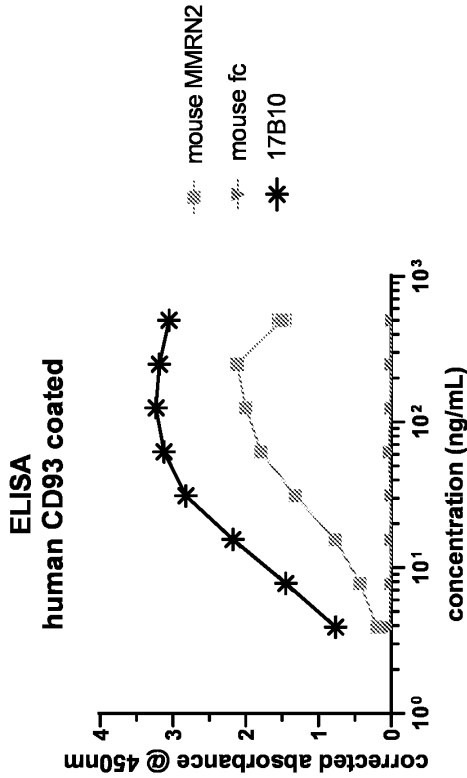


FIG. 35

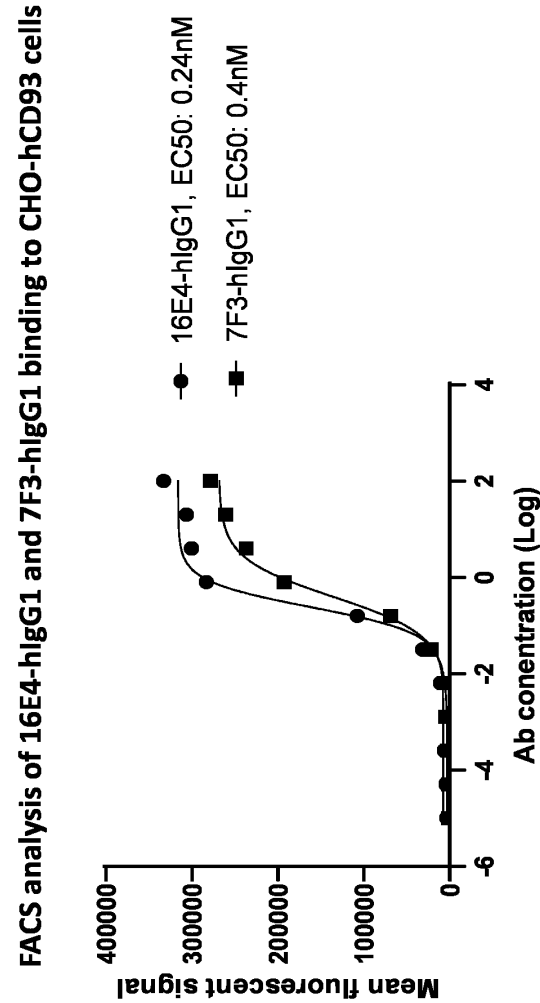


FIG. 36

FACS analysis of h7F3 binding to CHO-hCD93 cells

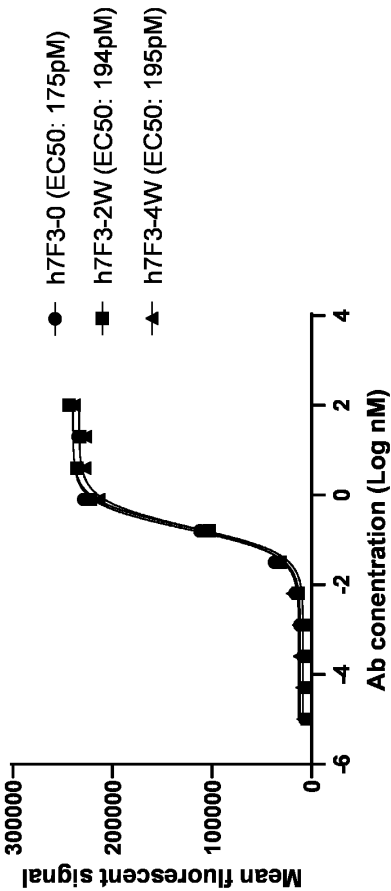


FIG. 37

FACS analysis of h16E4 binding to CHO-hCD93 cells

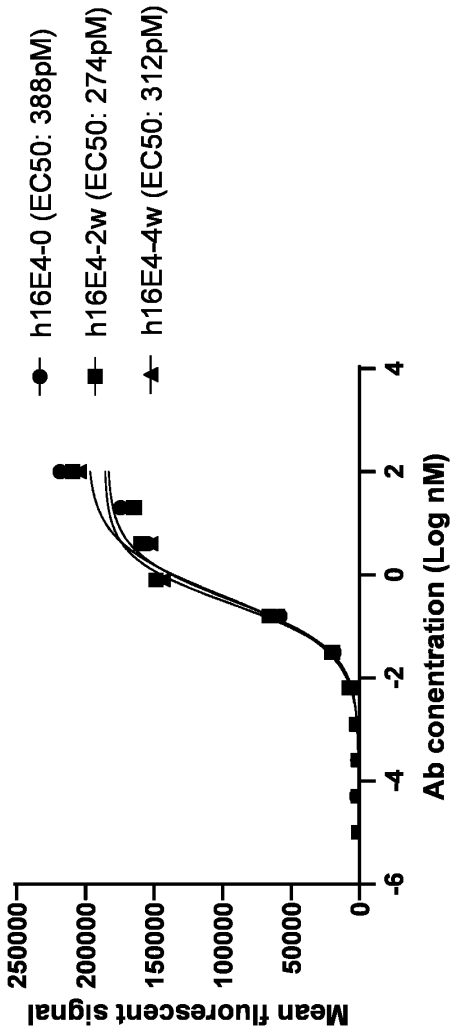


FIG. 38

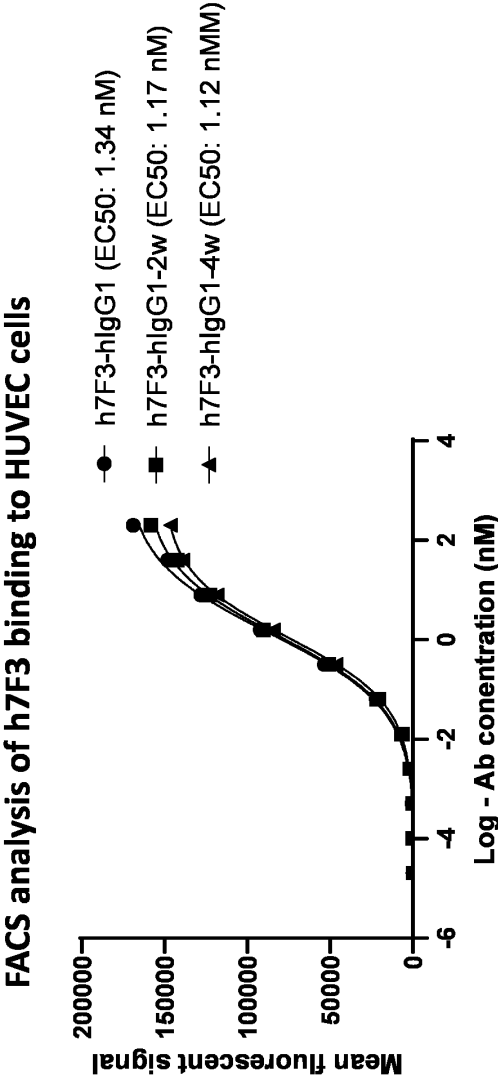


FIG. 39

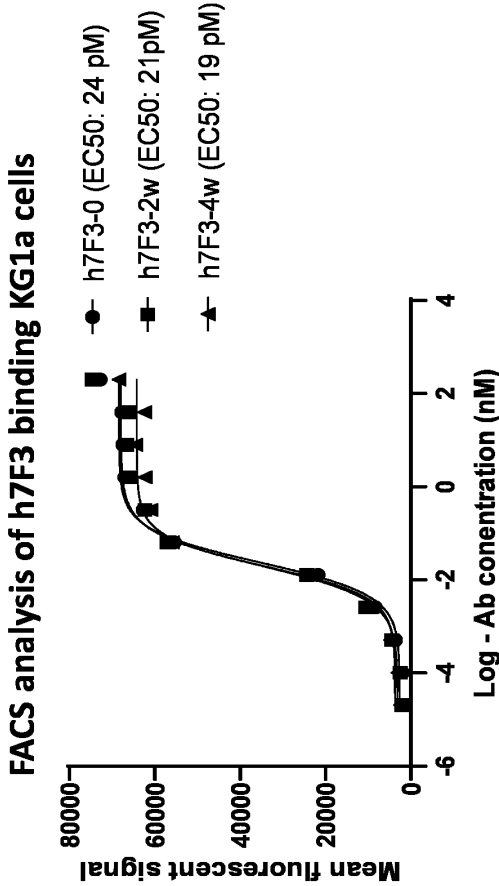


FIG. 40

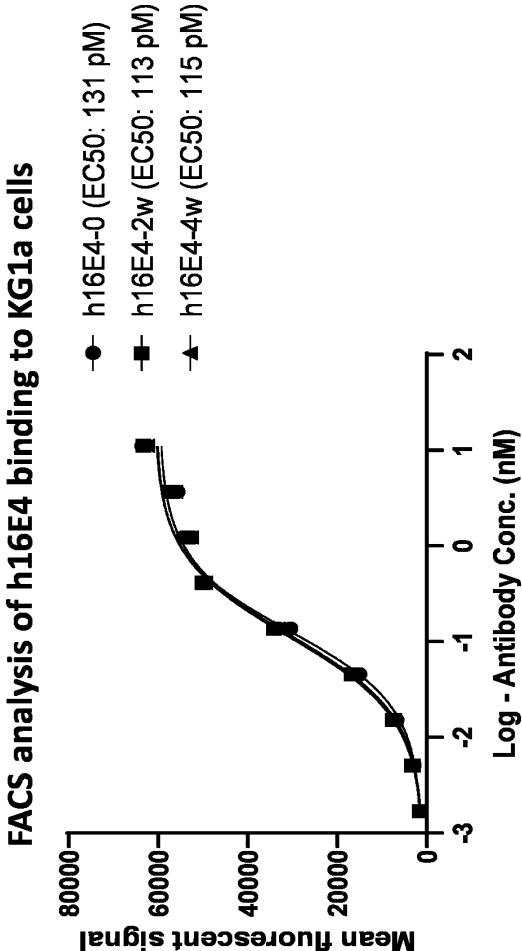


FIG. 41 Kinetic characterization of 16E4 and 7F3 binding to hCD93

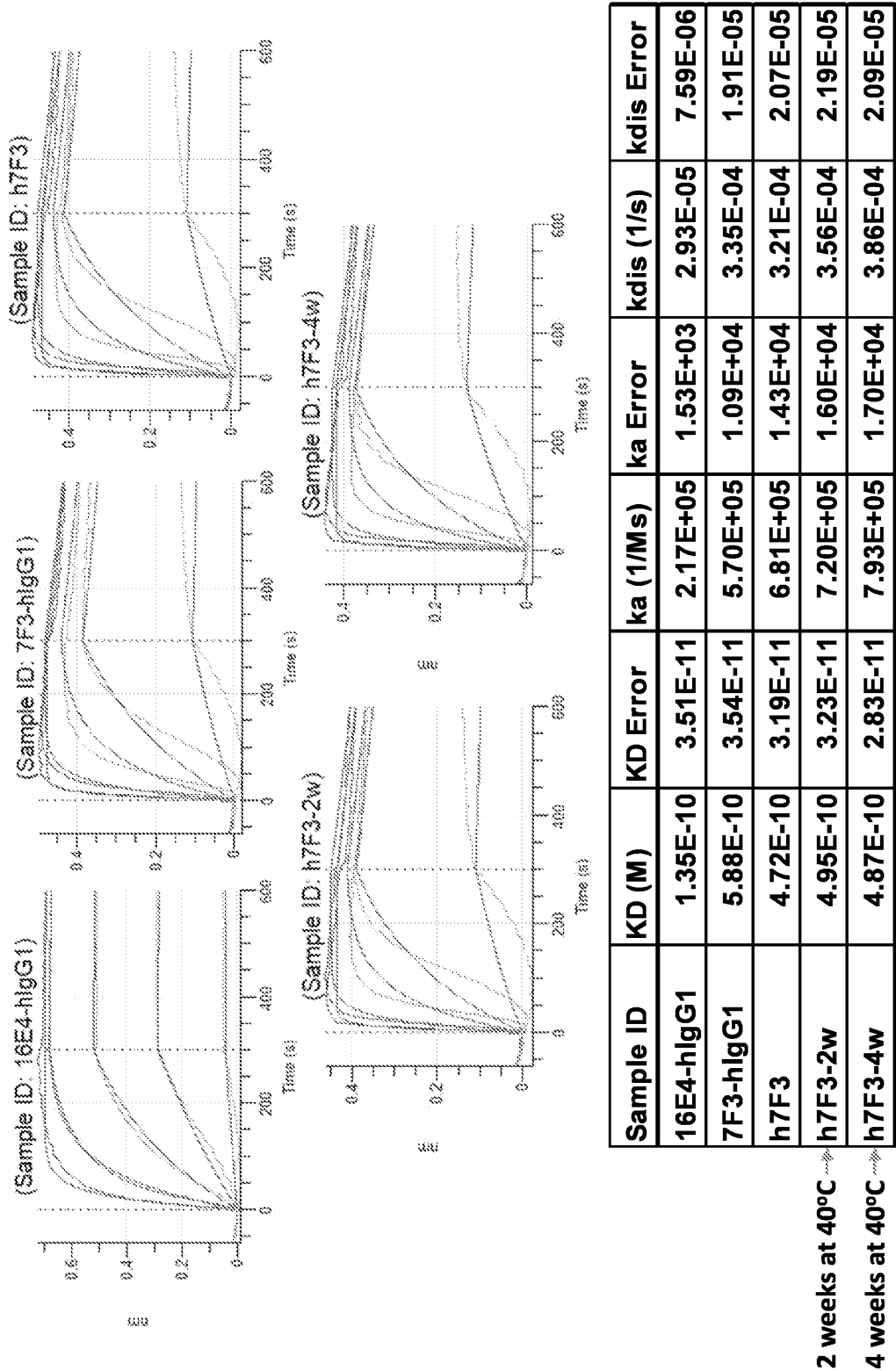
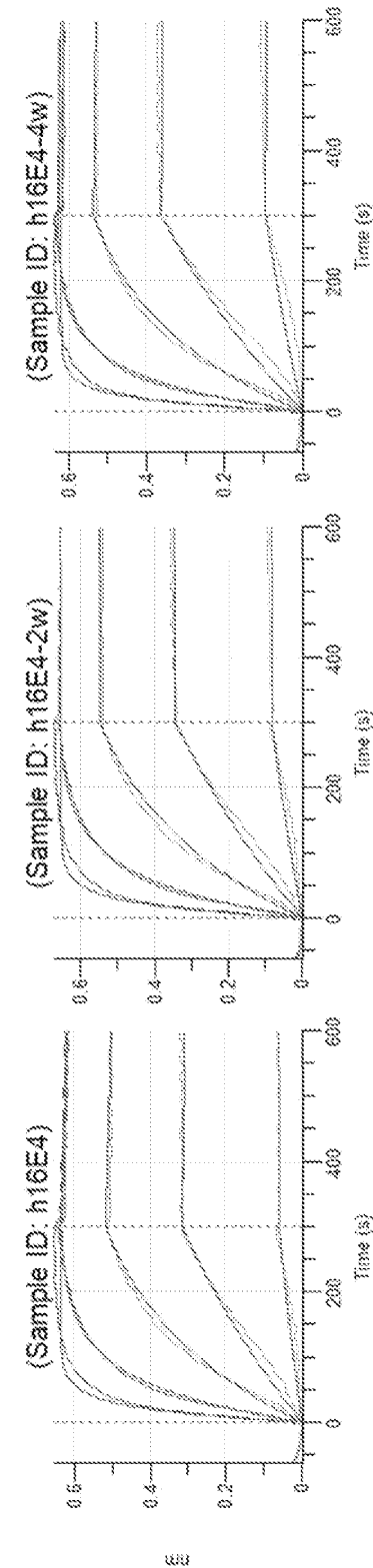


FIG. 42

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

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

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

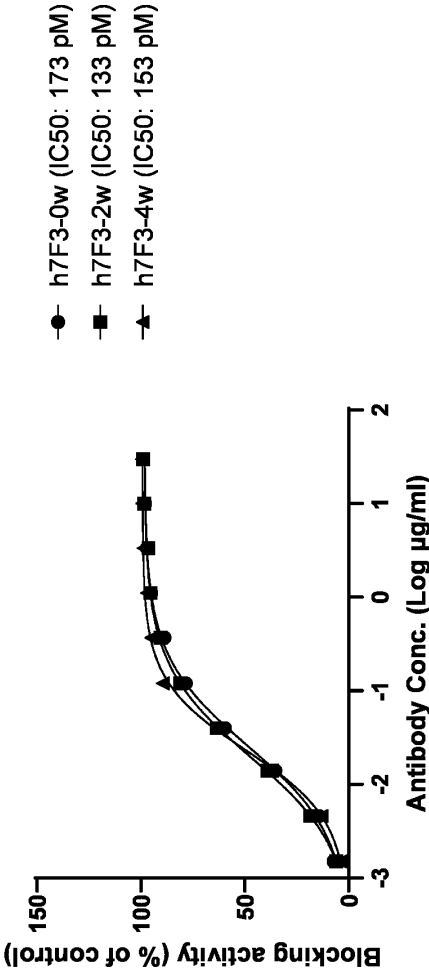


FIG. 45 MMRN2 blocking assay in CHO-hCD93 cells

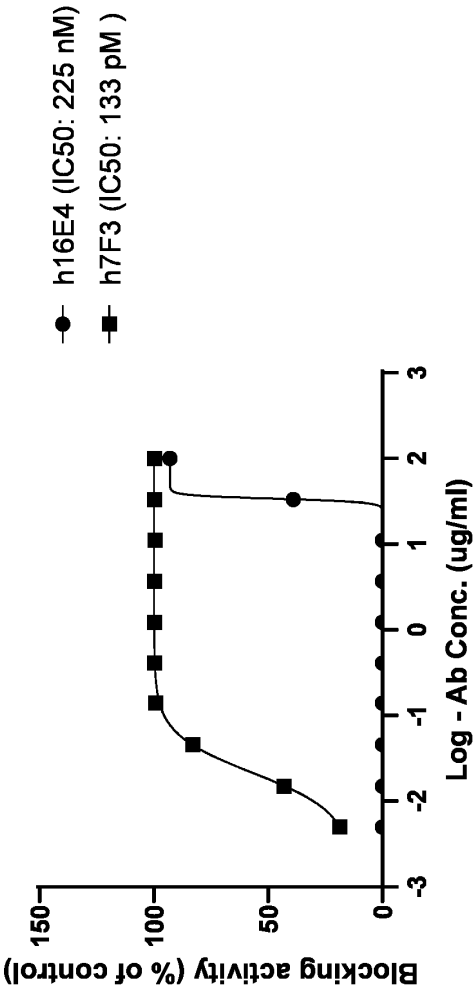


FIG. 46
FACS analysis of h7F3 blocking hIGFBP7-His binding to HUVEC cells

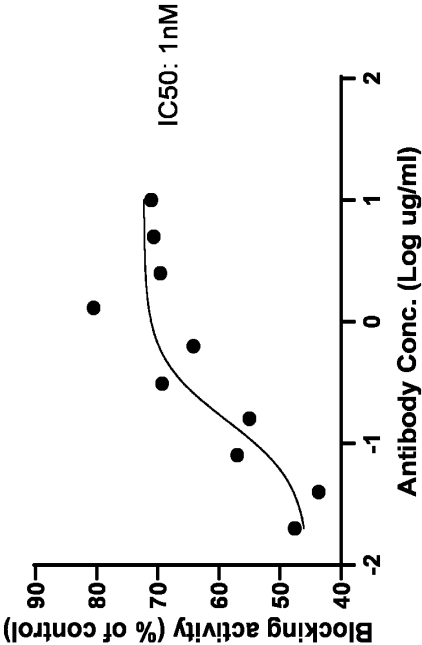


FIG. 47 Octet analysis of 7F3 blocking hIGFBP7 binding to hCD93

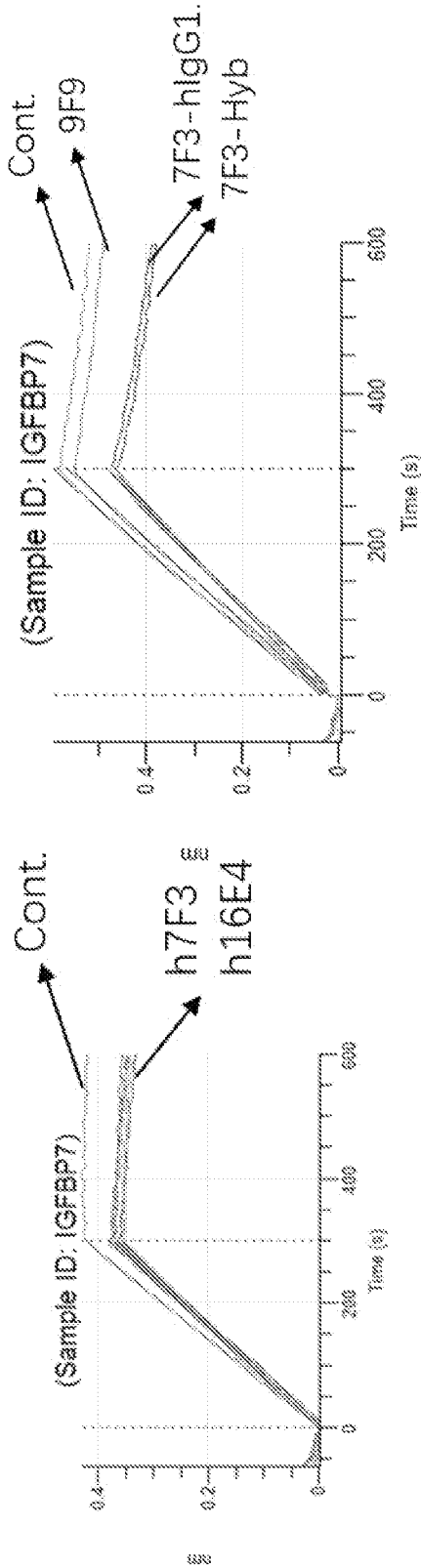


FIG. 48 Octet analysis of 16E4 blocking hIGFBP7 binding to hCD93

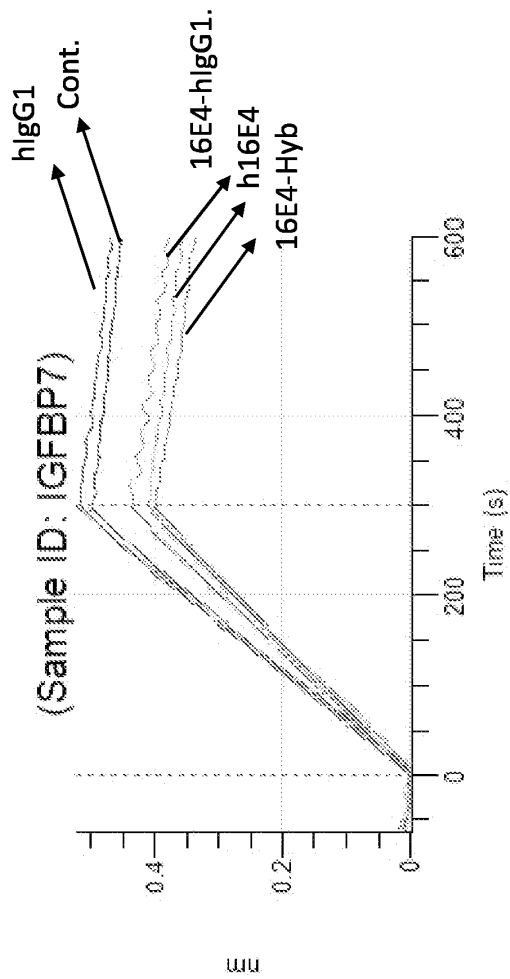


FIG. 49

HUVEC tube formation assay

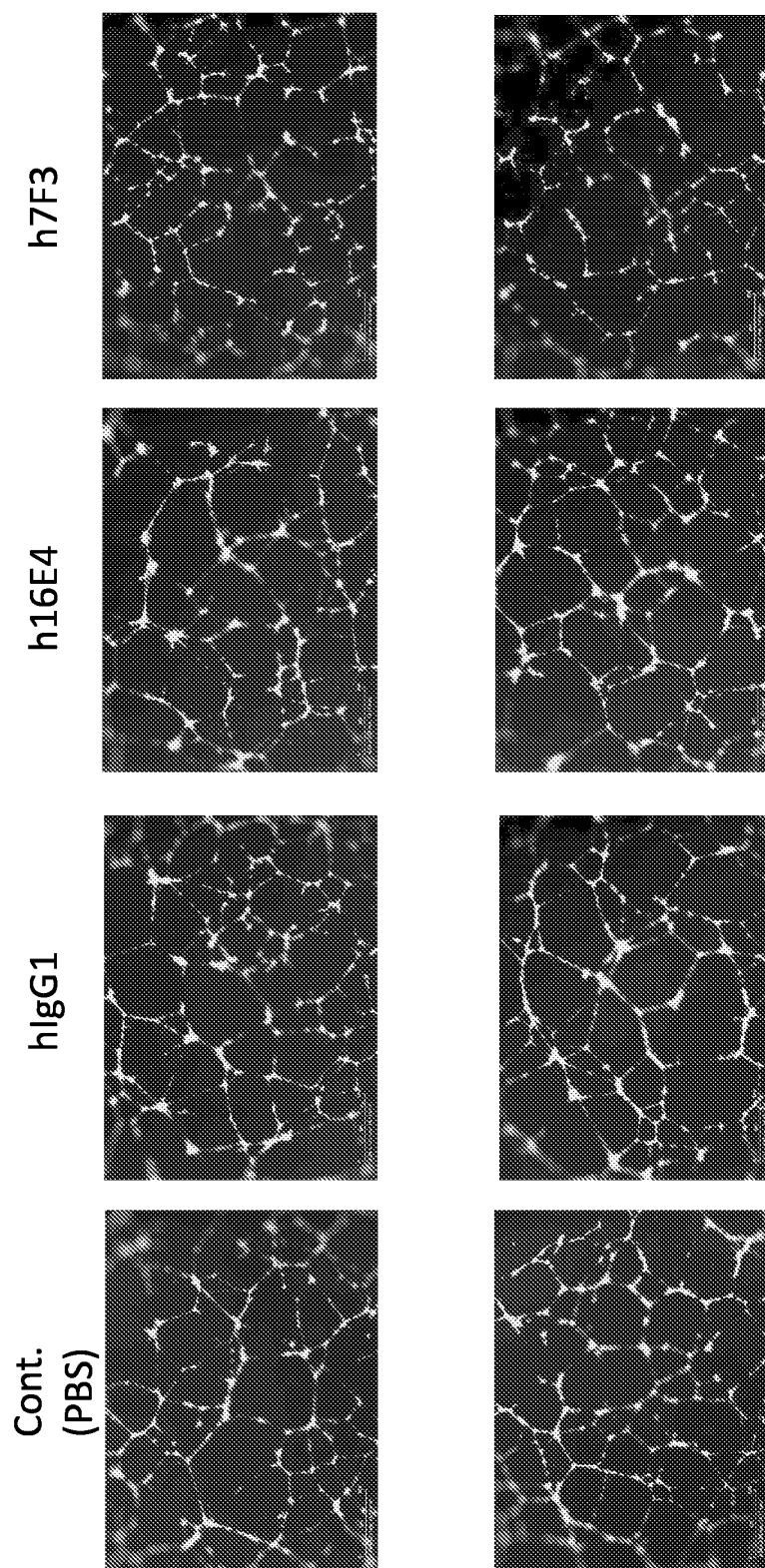


FIG. 50

HUVEC tube formation assay

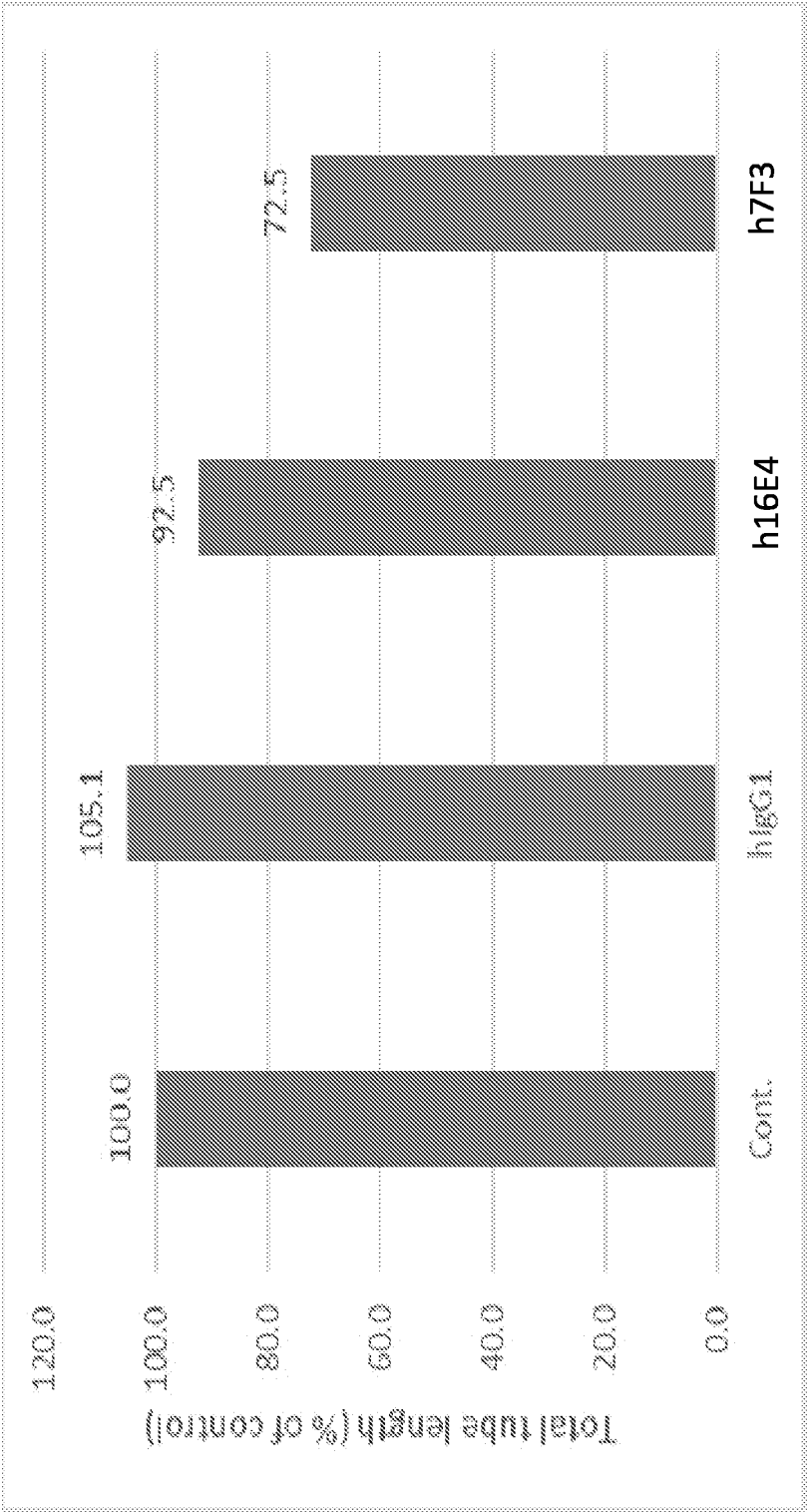


FIG. 51

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)

FIG. 52A

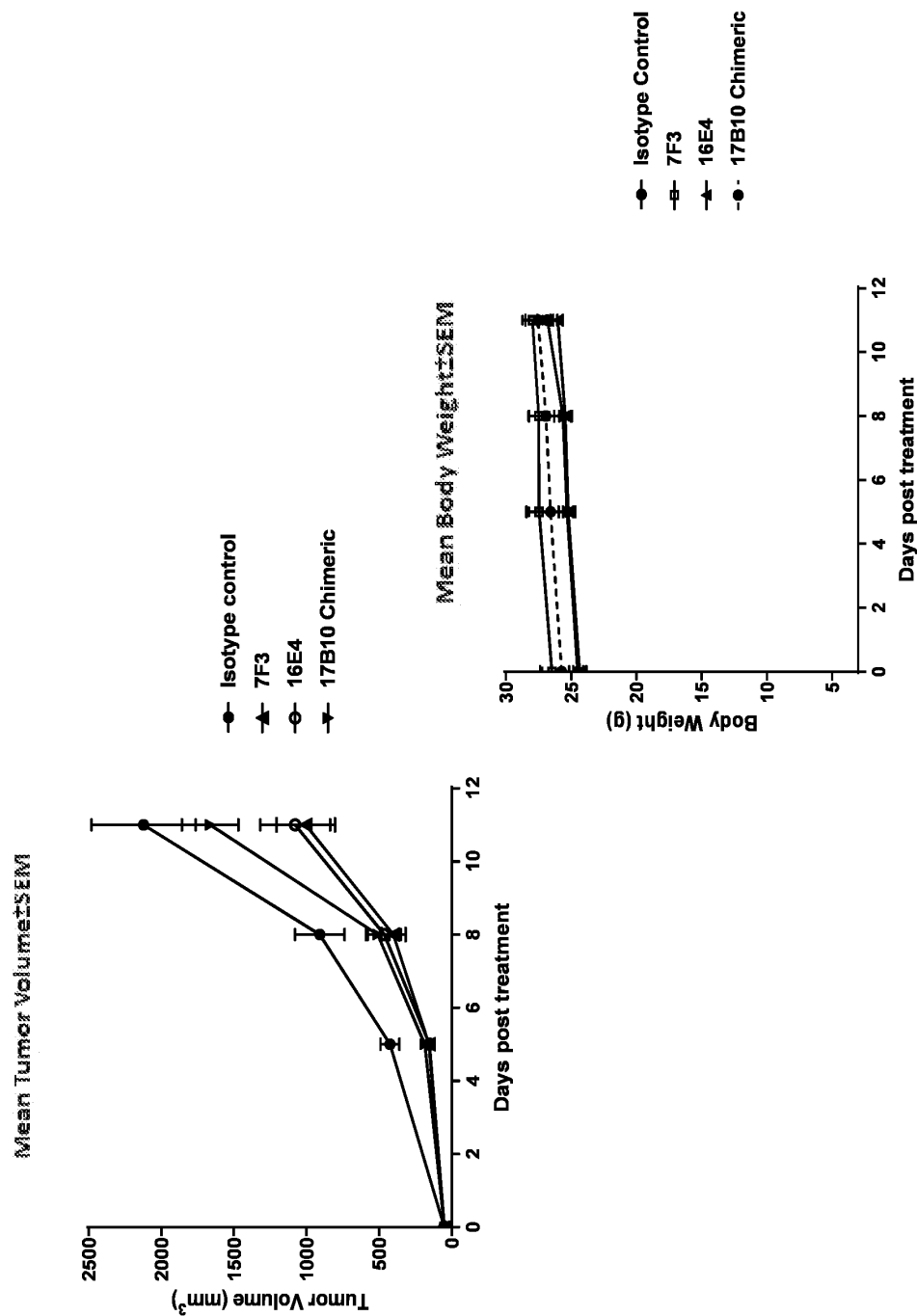
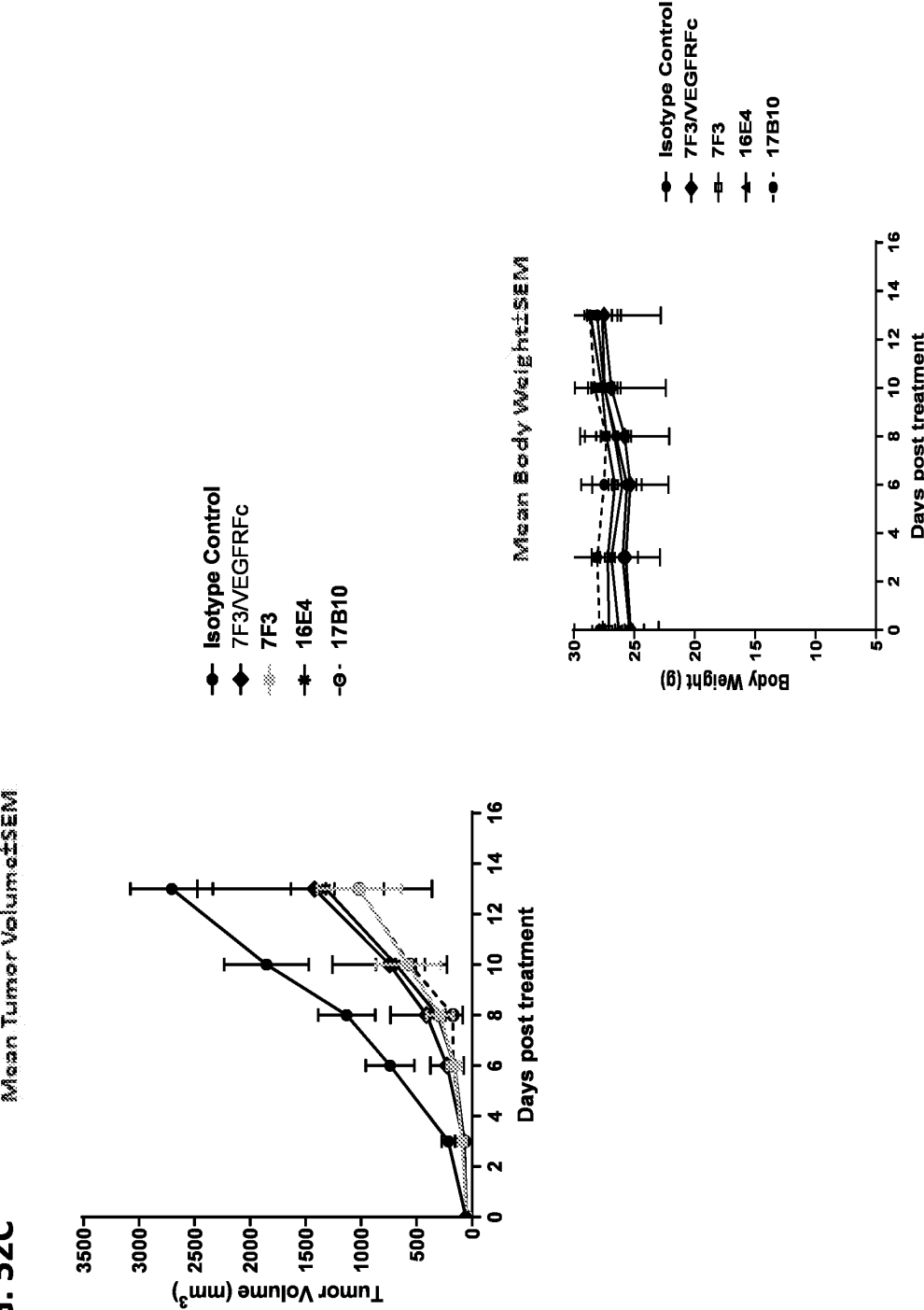


FIG. 52C



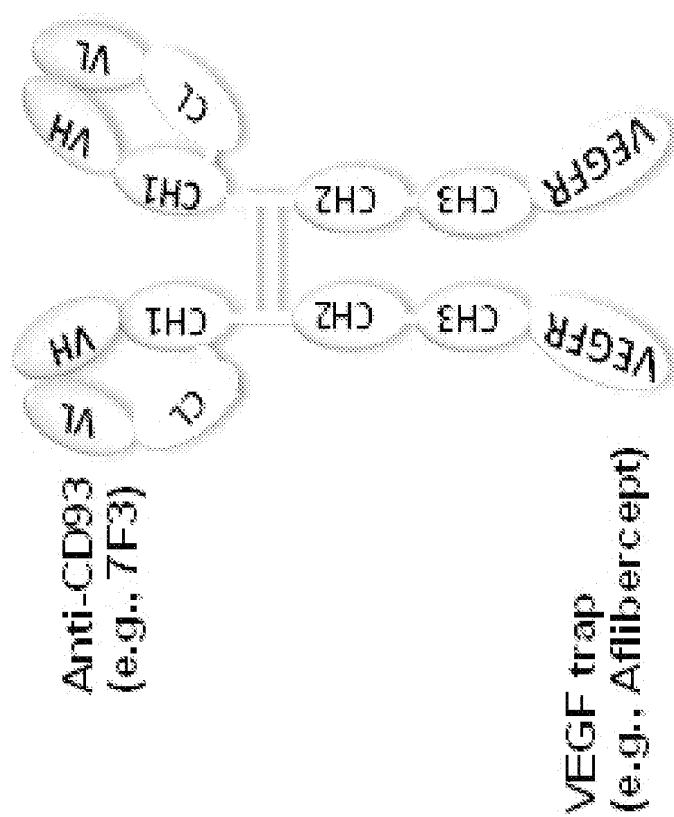


FIG. 53A

FIG. 53B

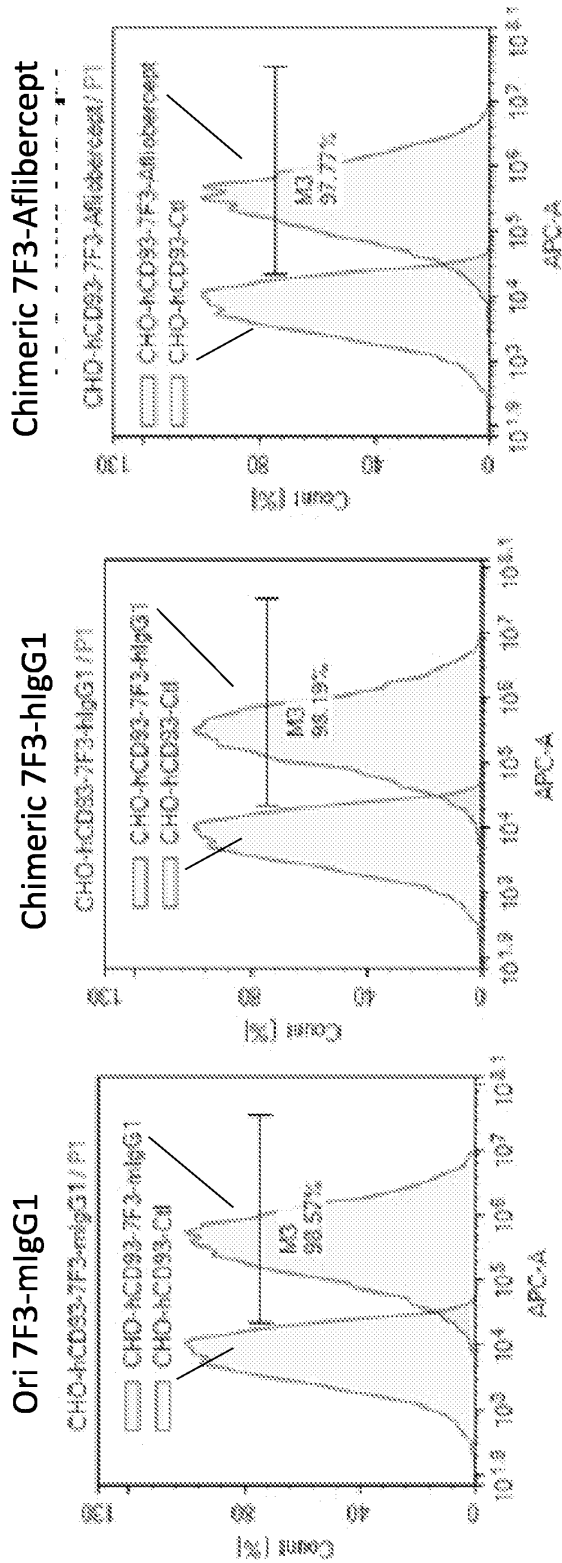


FIG. 53C

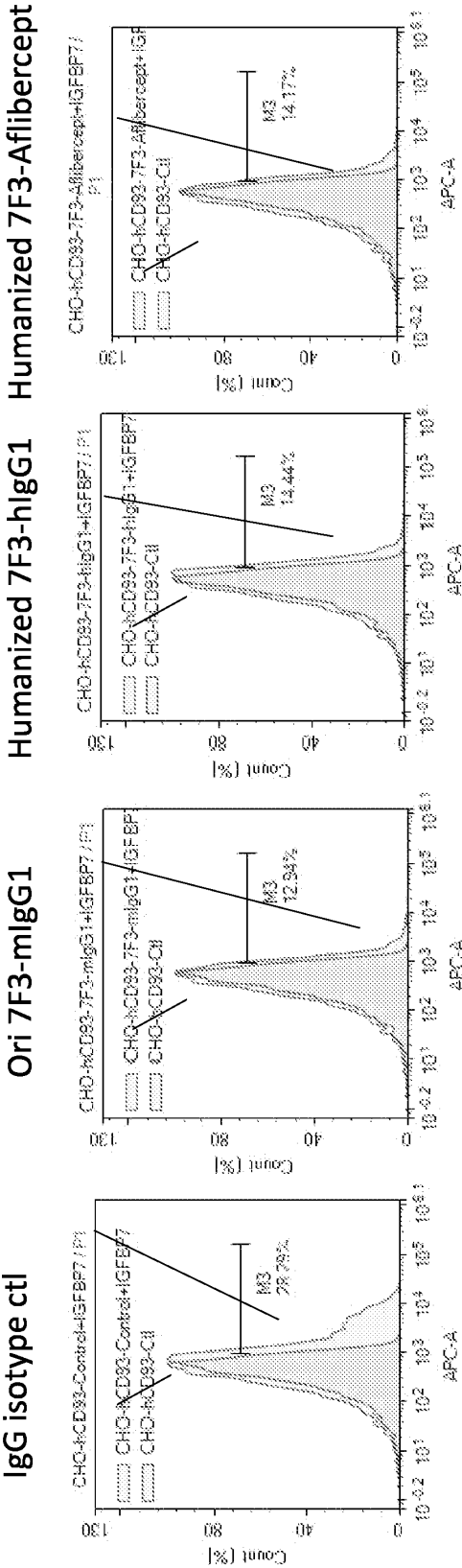


FIG. 53D

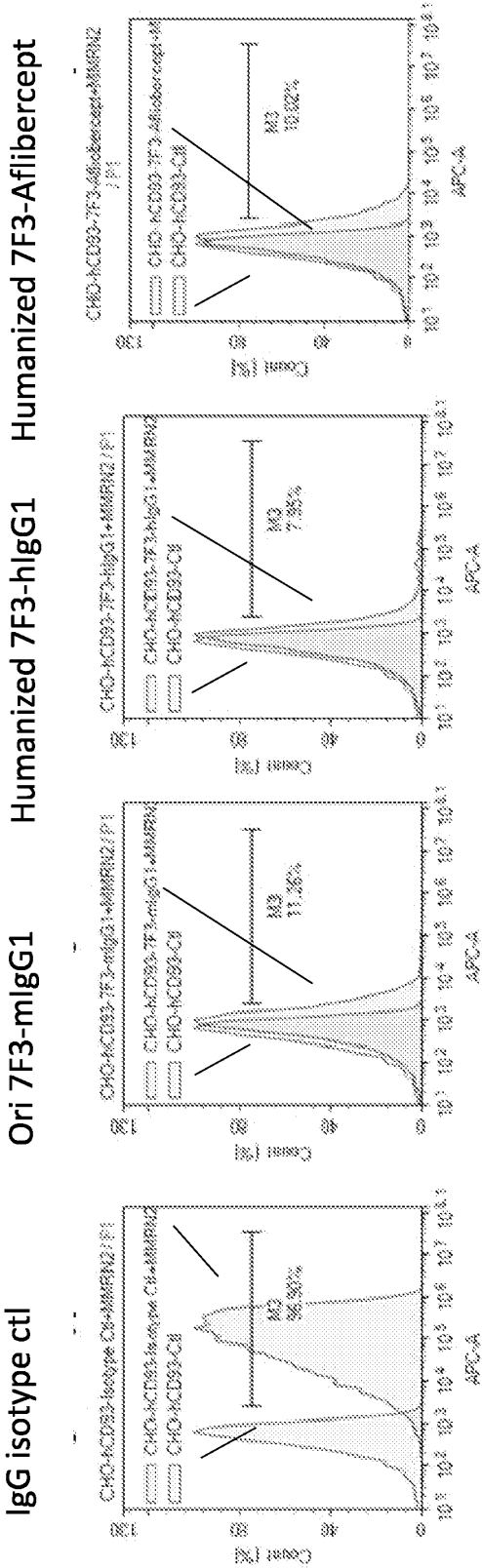


FIG. 53E

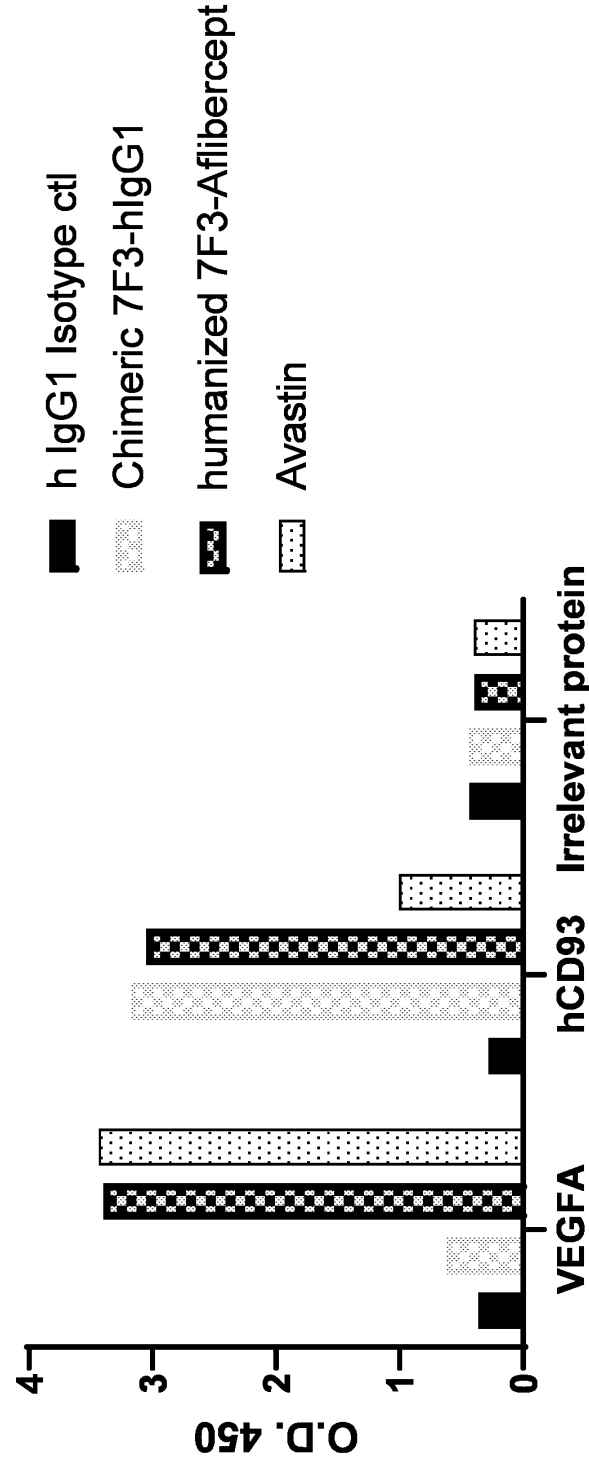


FIG. 53F

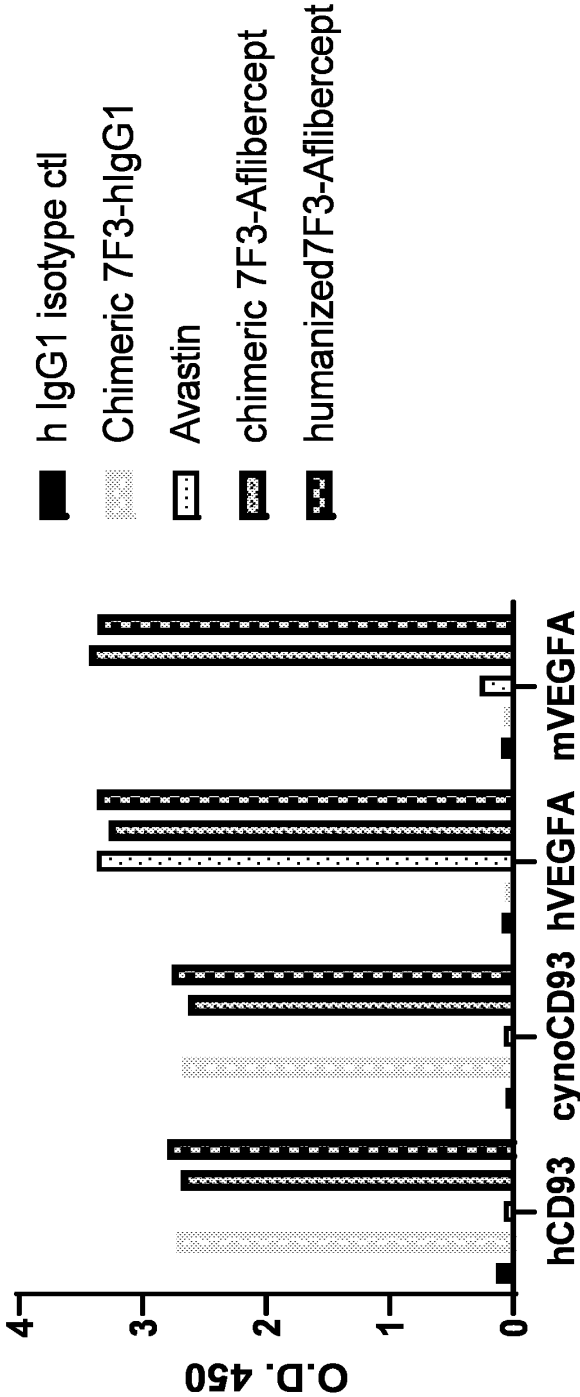


FIG. 53G

