

Figure 1A

Domain α 1

HLA-G GSHSMRYFSAAVSRPGRGEPRIAMGYVDDTQFVRFSDSDSACPRMEPRAPWVEQEGLPEYWEETNTKAHAQTDRMNLQTLRGYYNQSEA
 HLA-E GSHSLKYFHTSVSRPGRGEPRIISVGYYVDDTQFVRFNDAAASPRMYPRAPWMEQEGSEYWDRETRSAQDTAQIFRVLRLTLRGYYNQSEA
 HLA-A2 GSHSMRYFFTSVSRPGRGEPRIAVGYVDDTQFVRFSDSAAQRMEPRAPWIEQEGPEYWDGETRKVKKAHSQTHRVDLGTTLRGYYNQSEA
 HLA-B7 GSHSMRYFYTSVSRPGRGEPRIISVGYYVDDTQFVRFSDSAAAPREEPRAPWIEQEGPEYWDRTQIYKAQAQTDRESLRNLRGYYNQSEA
 HLA-B44 GSHSMRYFCTAVSRPGRGEPRIHIAVGYVDDTQFVRFSDSDDESPRGEPRAPWVERKGPPEYWDRETQKYKPEQAQTDVSLRNLRGYYNQSEA
 HLA-CW3 GSHSMRYFYTAMSRPGRGEPRIITVGYYVDDTLFVRFSDSATSPRKEPRAPWIEQEGPEYWDRETQISKNTNTQTYRENLRTAARYYNQSEA
 Residues 1.....10.....20.....30.....40.....50.....60.....70.....80.....90

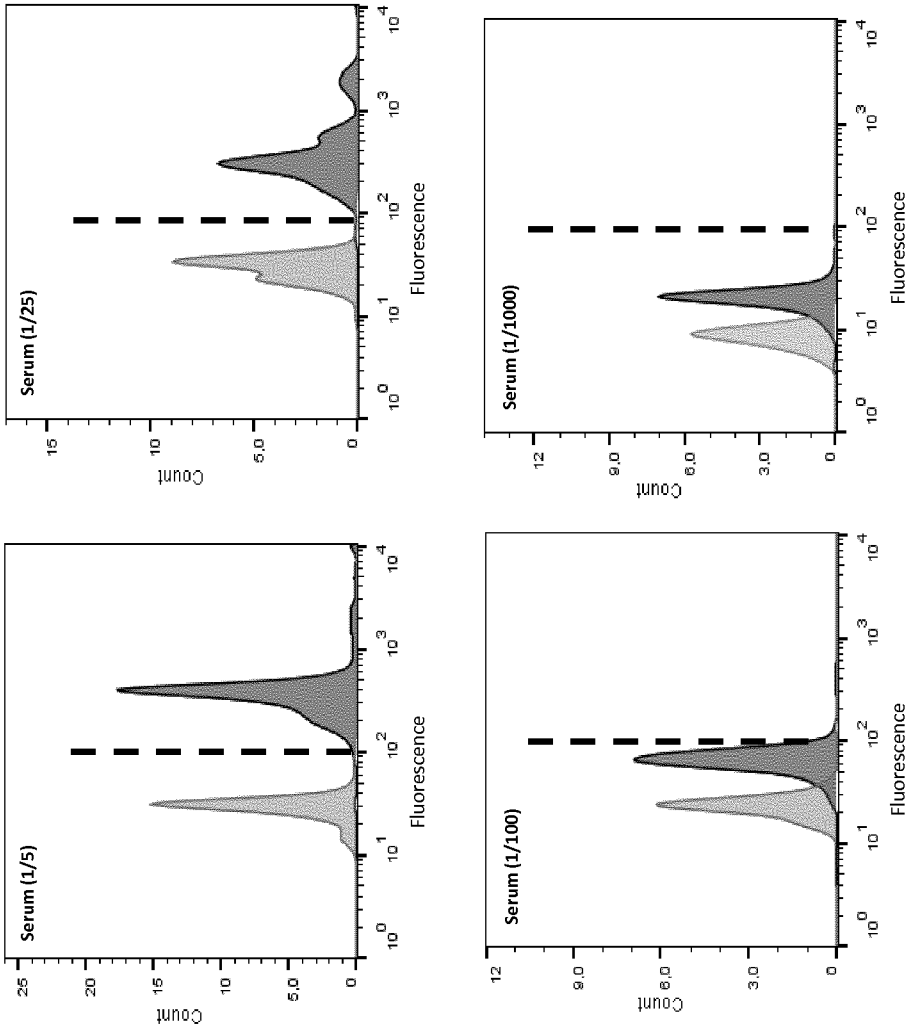
Domain α 2

HLA-G SSHTLQWMIIGCDLGS DGRLLRGYEQYAYDGKDYIALNEDLRSWTAADTAAQISKRKCEANVAEQRRAYLEGT CVEWLHRYLENGKEMLQRA
 HLA-E GSHTLQWMHGCELGPDGRFLRGYEQFAYDGKDYLTINEDLRSWTAADTAAQISEQKSNDASEAHEQRAYLEDT CVEWLHKYLEKGKETLLHL
 HLA-A2 GSHTVQRMYGCDVGS DWRFLRGYHQYAYDGKDYIALKEDLRSWTAADMAAQITKKWEAAHVAEQIRAYLEGT CVEWLRRYLENGKETLQRT
 HLA-B7 GSHTLQSMYGCDVGP DGRLLRGHDQYAYDGKDYIALNEDLRSWTAADTAAQITQKWEAAEAQRRAYLEGE CVEWLRRYLENGKDKLERA
 HLA-B44 GSHIIRMYGCDVGP DGRLLRGYDQYAYDGKDYIALNEDLRSWTAANTAAQITQKWEAAR EAEQIRAYLEGL CVEWLRRYLENGKETLQGA
 HLA-CW3 GSHIIQRMYGCDVGP DGRLLRGYDQYAYDGKDYIALNEDLSSWTAADTAAQITQKWEAARVAEQDRAYLEGL CVESLRRYLENGKETLQRA
 Residues100.....110.....120.....130.....140.....150.....160.....170.....180..

Domain α 3

HLA-G DPPKTHVTHHPVFDYEATLR CWALGFYPAEIILTWQRDGEDQTQDVELVETRPAGDGT FQKWA AVVP SGEEQRYTCHVQHEGLPEPLMLRWK
 HLA-E EPPKTHVTHHPISDHEATLR CWALGFYPAEITLTWQDGECHTQDTEL VETRPAGDGT FQKWA AVVP SGEEQRYTCHVQHEGLPEPVTLRWK
 HLA-A2 DAPKTHMTHHAVSDHEATLR CWALGFYPAEITLTWQRDGEDQTQDTEL VETRPAGDGT FQKWA AVVP SGEEQRYTCHVQHEGLPKPLTLRWE
 HLA-B7 DPPKTHVTHHPISDHEATLR CWALGFYPAEITLTWQRDGEDQTQDTEL VETRPAGDRT FQKWA AVVP SGEEQRYTCHVQHEGLPKPLTLRWE
 HLA-B44 EHPKTHVTHHPVSDHEATLR CWALGFYPAEITLTWQWDGEDQTQDTEL VETRPAGDGT FQKWA AVVP SGEEQRYTCHVQHEGLPEPLTLRWE
 HLA-CW3 DPPKTHVTHHPISDHEATLR CWSLGFYPAEITLTWQRDGEDQTQDTEL VETRPAGDRT FQKWA AVVP SGEEQRYTCHVQHEGLPKPLTLRWE
 Residues190.....200.....210.....220.....230.....240.....250.....260.....270.....

Figure 1B



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Figure 1C

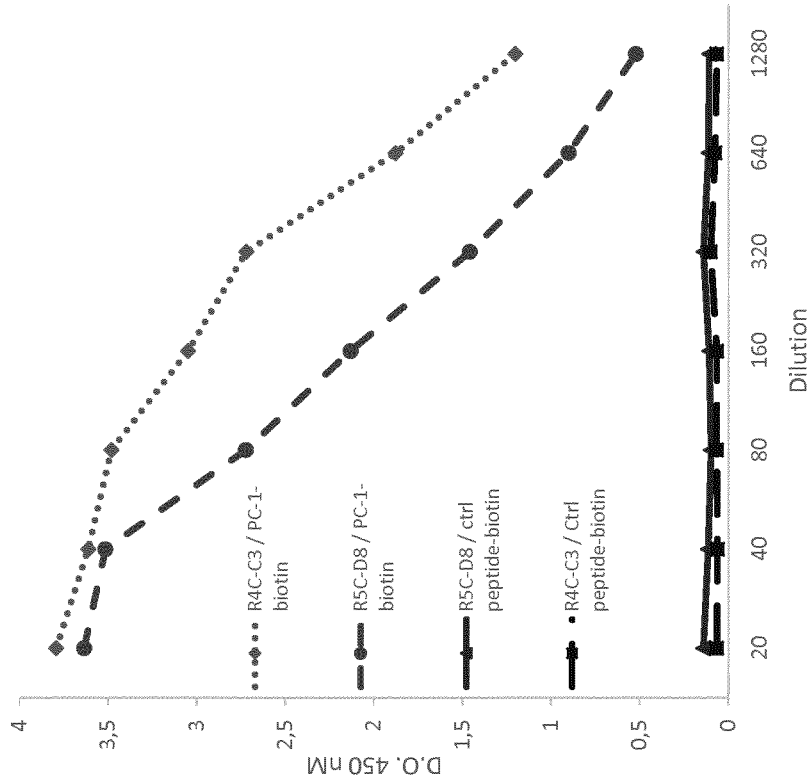


Figure 2A

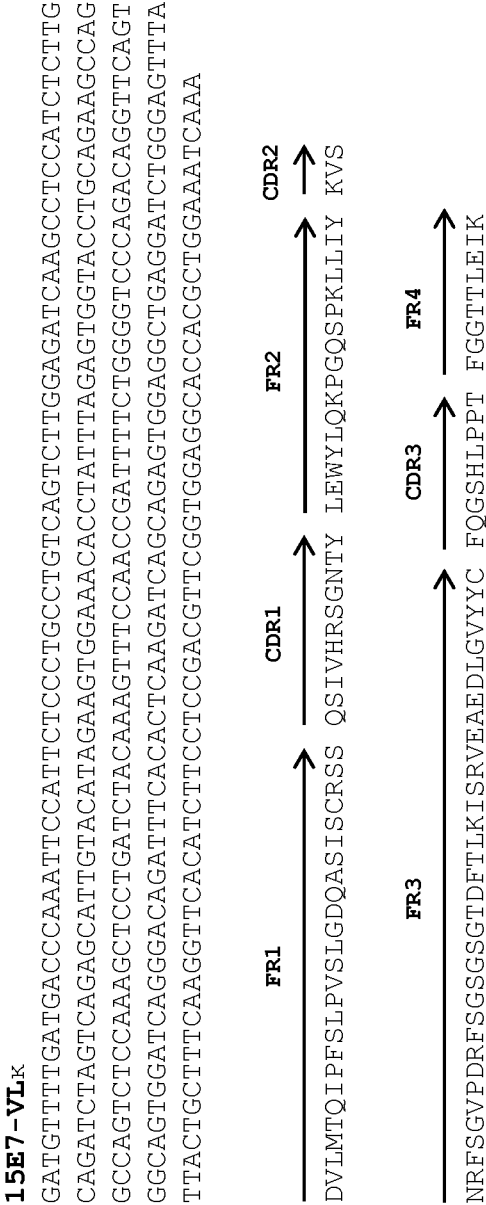
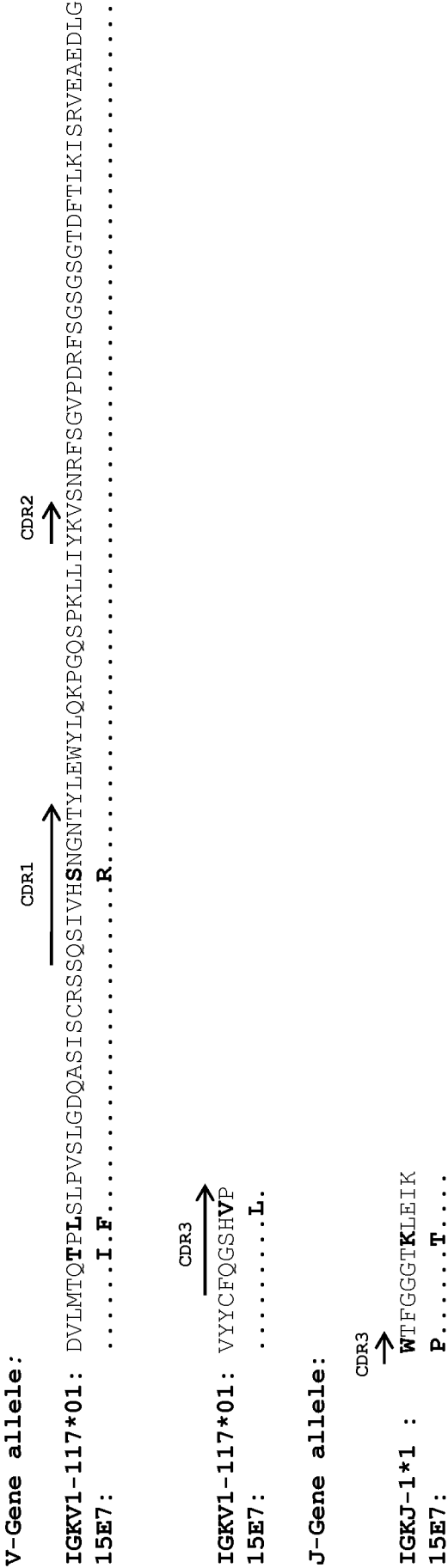


Figure 2B



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Figure 3A

15E7-VH

CAGGTCCAAAC TGACGACAGCCTGGGGCTGAACTGGTGAGGCCTGGGTCTTCAGTGAAGCTGTCTCTGCAAGG
CTTC TGGCTACACCTTCA CCGACTACTG GATGGATGGGTGAGCAGAGGCCTGGACAAAGGCCTTGAATG
GATTGGTACCA TTTACCTTCTGA TAGTTCAACTCACTACAATCAAGAGTTCAAGGGCAAGGCCACAAATG
ACTGTAGACAAA TCCTCCAGCACAGCCTACATGCATCTCAGCAGCCTGACATCTGAGGACTGTGCGGTCT
ATTACTGTGCAAGAGAGGGACTAGCTGGGGTGTCTACTTTGACTACTGGGGCCAAAGGCCACCACTCTCAC
AGTCTCCTCA

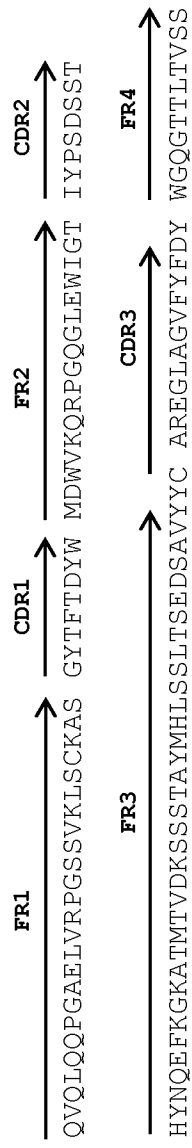


Figure 3B

V-Gene allele:

V-Gene allele: **IGHV1-61*01**: QVQLQQPGAELVRPGSSVKLSCKASGYTFTSYMMDWVKQRPQGLEWIGNIYPSDSETHYNQKFKDKATLTVDKSSSTAYMQLSLTSE
15E7:D.....T.....S.....E..G..M.....H.....

IGHV1-61*01: DSAVYYCAR
15E7:
CDR3 ↑

D-Gene allele

D-GENE alleles.
 IGH D4-1*01: CDR3
 15E7: --LTG--
 EG.A.VF

J-Gene allele:

IGHJ2*01:
15E7:
CDR3
↑
YFDYWGQGTTLTVSS
.....

Figure 4A

R4C-C3-VL_{LK}
GATGTTTGTAGACCCAAACTCCACTCTCCCTGCCTGTCACTCTTGGAGATCAAGCCTCCA
TCTCTTGCAGATCTAGTCAGAGCCTTGACACAGTAATGGAACACCTATTACATTGGTA
CCTGCAGAAGCCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTCTCCAAACCATTCTCT
GGGTCCCTGACAGGTTCACTGGCAGTGGATCAGGAGACAGATTTCACACTCAAGATCAGCA
GAGTGGAGGCTGAGGATCTGGGAGTTTATTCTGCTCTCAAAGTACACATTTTCTCCTCCGAC
GTTCCGGTGGAGGCCAACCAAGCTGGAAATCATA

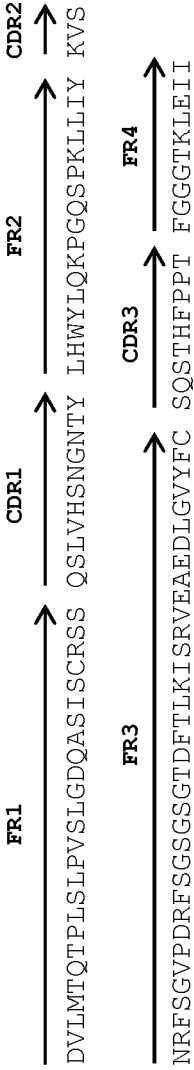


Figure 4B

V-Gene allele:

IGKV1-110*01: DVVMTQTPLSLPVSLGDAQISCRSSQSLVHSNGNTYLHWYLQKPGQSPKLLIYKVSNRFSGVDPDRFSGSGSGTDFTL
R4C-C3: ..L.....



IGKV1-110*01: KISRVEAEDLGVYFCSSQSTHVP
R4C-C3 :F.



J-Gene allele:

IGKJ1*01: WTFFGGGTKLEIK
R4C-C3: P.....I



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R4C-C3-VH
CAGGTGCAGCTGAAGCAGTCTGGGCCTCAGCTGGTTAGGCTTCAAGTGAAGATACCCCTGCAAGGCTT
CTGGTTACTCAATTCACCAACTACTGGATGCATGGGTGAAGCAGAGGCCCTGGACAAGGCTTTGAGTGGATTGG
CATGATTGCTCCTCCGATAGTAGTAAATCAGAAATTTCAAGACAAGGCCACATTGACTGTAGAC
AAATCCTCCAGCACAGCCTACATGCAACTCAGAGCCGACATCTGAGGACTCTCGGGTCTATTACTGTGCAA
GAGAGGGAGTTACAATGATAACGACGGGCTTGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA

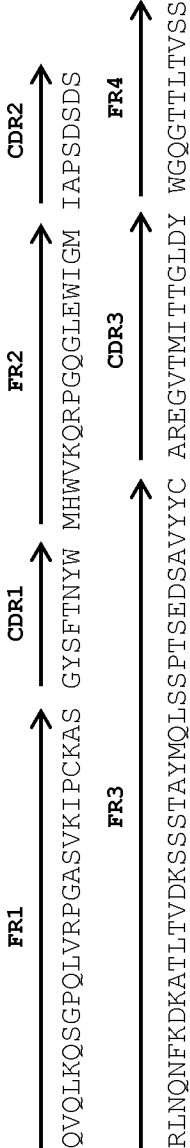


Figure 5B

V-Gene allele:	CDR1	CDR2
IGHV1S126-1:	QVQLQPPGAEIVKPGASVKISCKASGYTFTSYWMNWVKQRPQGQGLEWIGEIDPSDSYTNNNQKFKDKATLTVDKSSST	
R4C-C3:	K.S..Q..R.....P.....S..N...H.....M.A....DSRL..N.....	
	CDR3 →	
IGHV1S126-1:	AYMQLSSLT-SEDSAVYYCAR	
R4C-C3:	P.Q.....	
D-Gene allele:	CDR3	
IGHD2-12*01:	PTIVT-IVT	
R4C-C3:	-EG..M.T.	
J-Gene allele:	CDR3	
IGHJ2*01:	YFDYWGGTTLTVSS	
R4C-C3:	GL.....	

Figure 6A

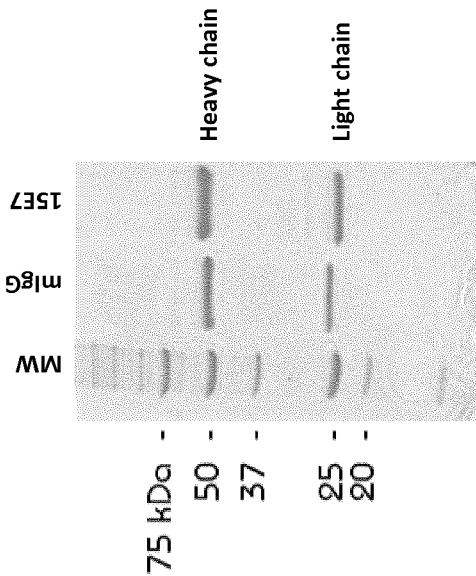


Figure 6B

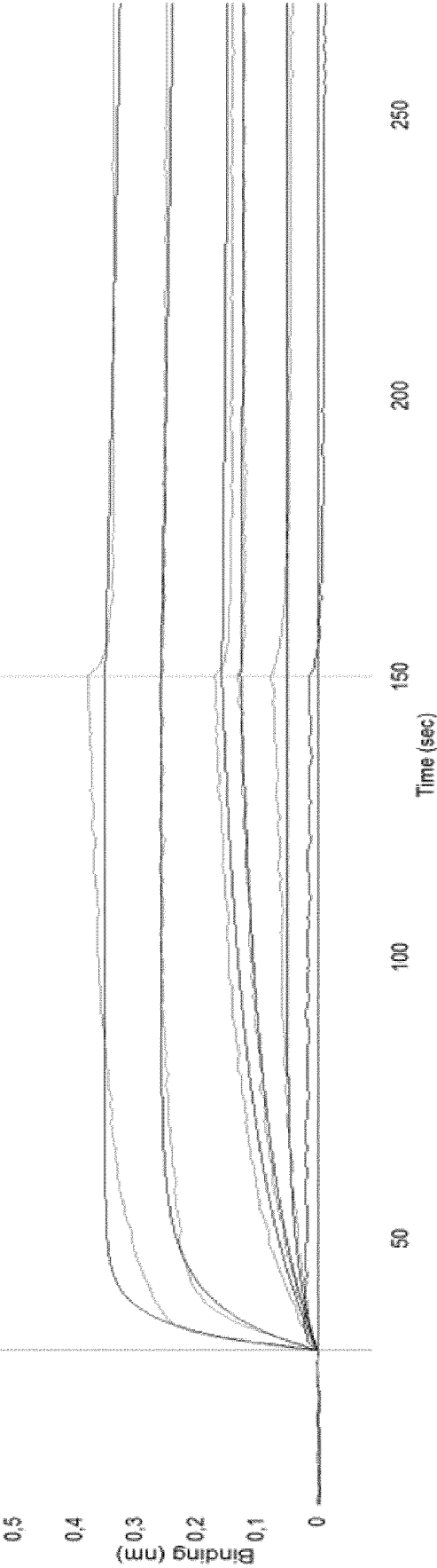


Figure 7A

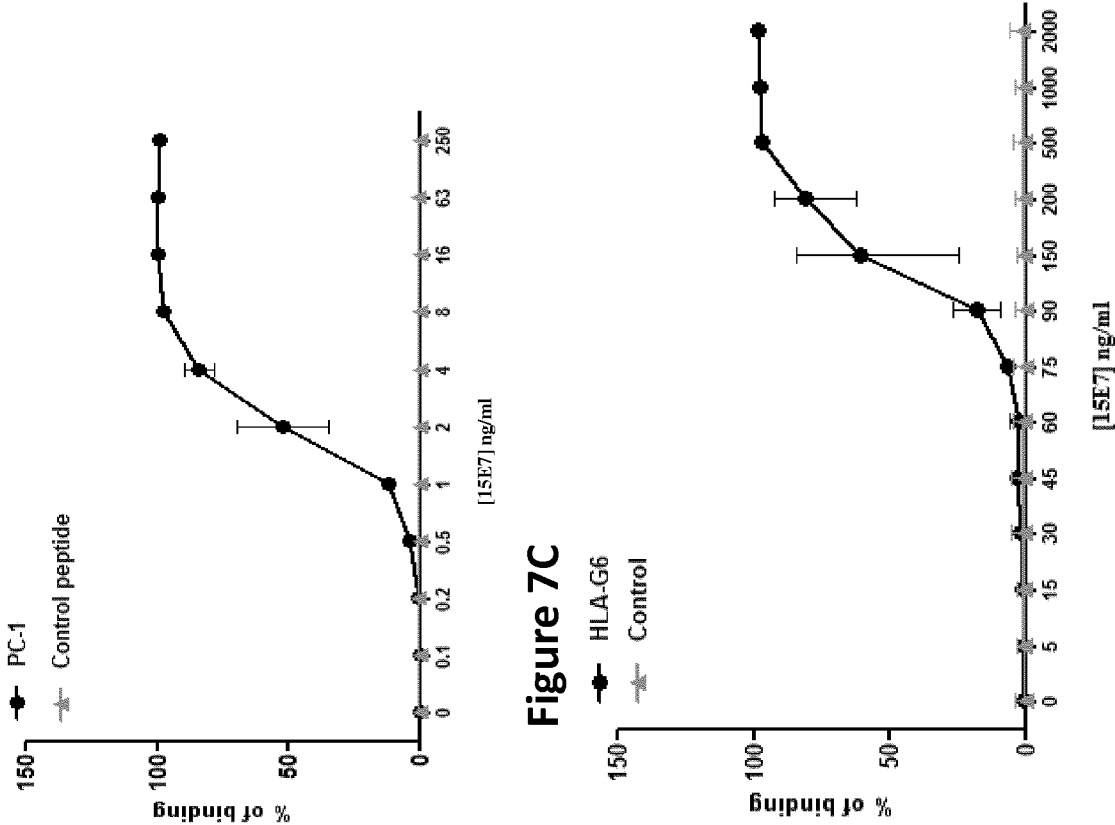


Figure 7B

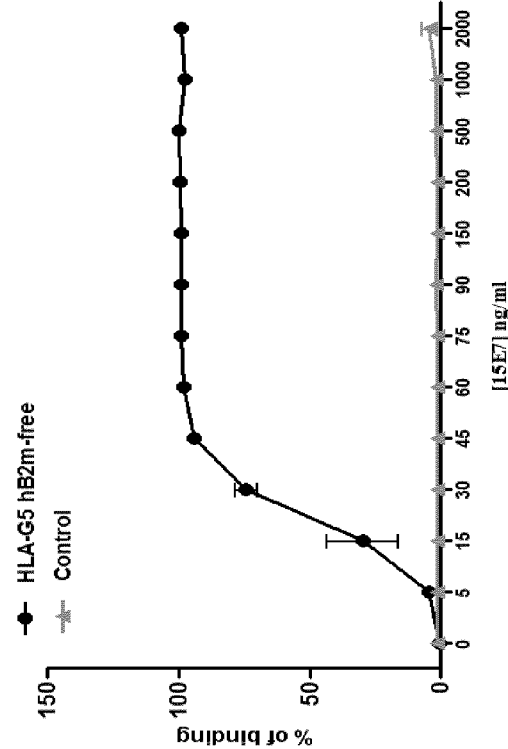


Figure 7C

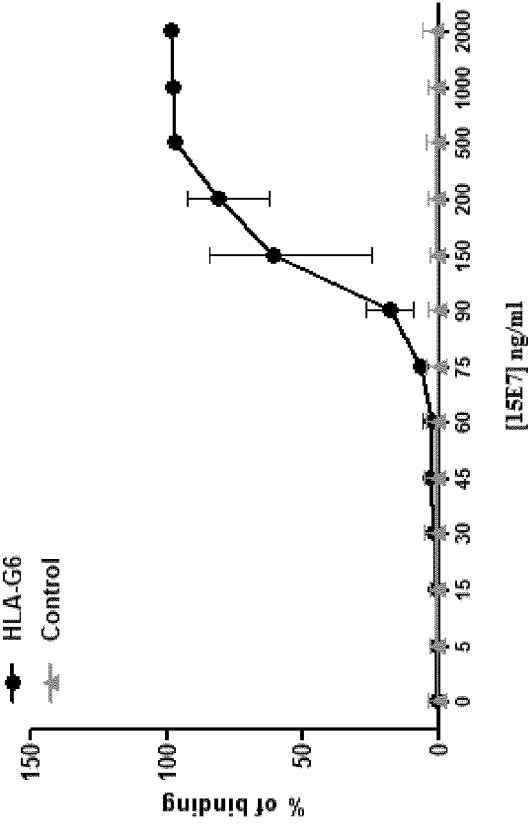
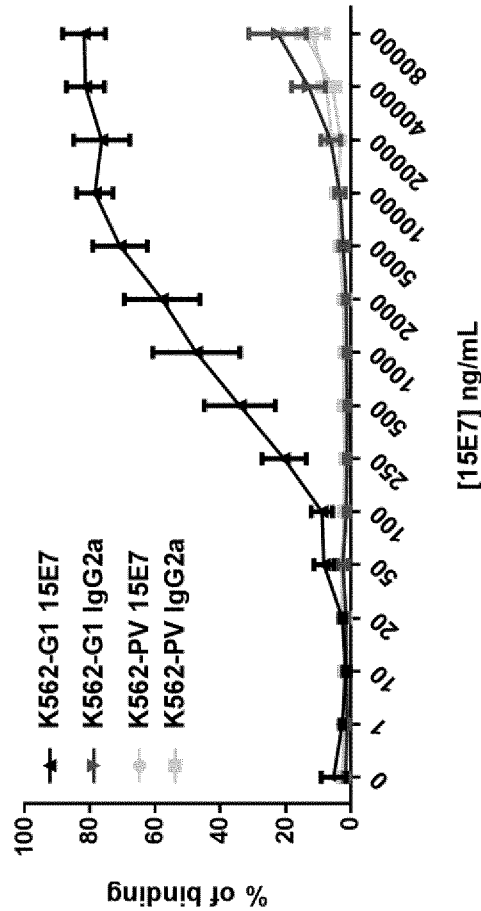


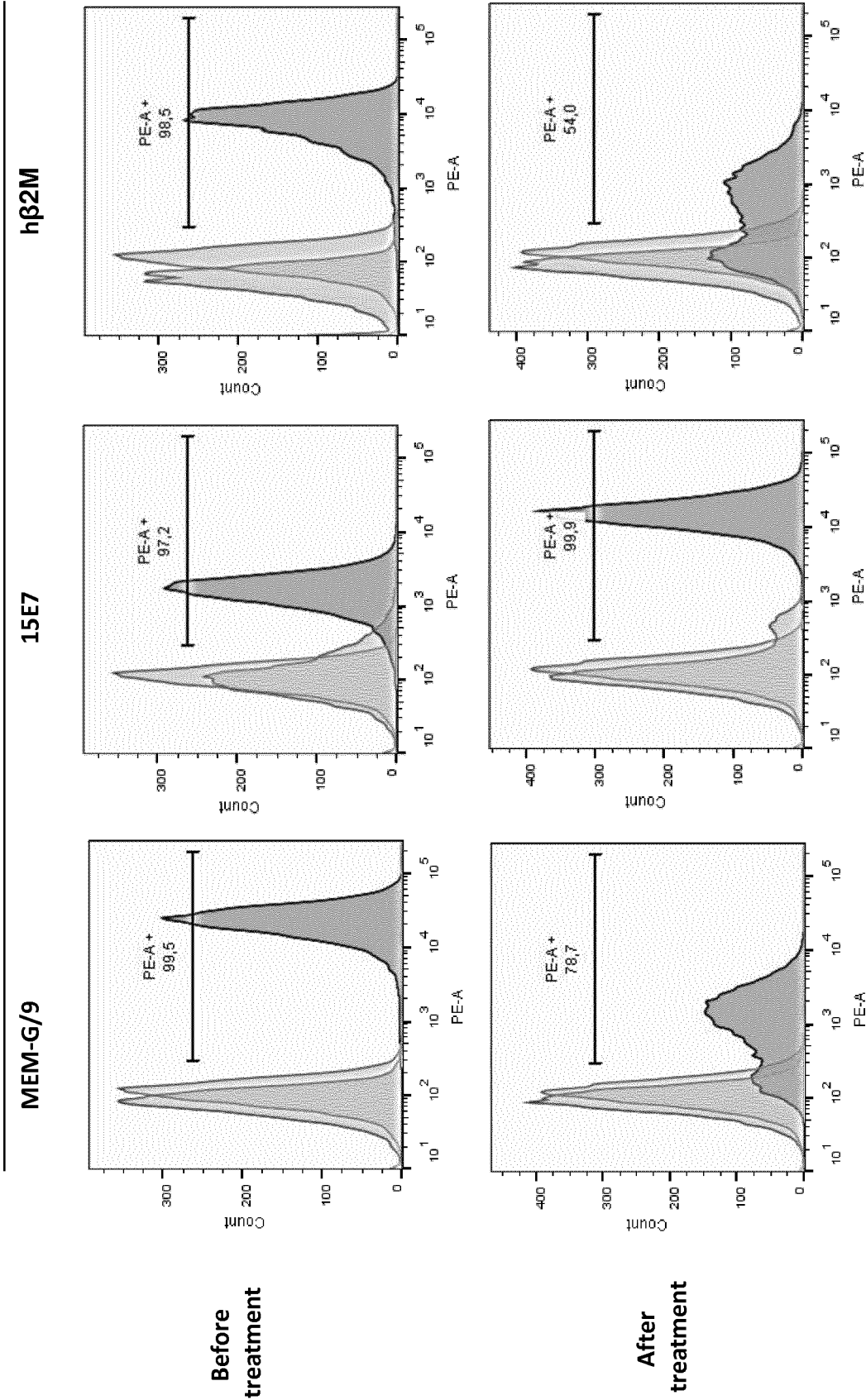
Figure 8



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Figure 9A

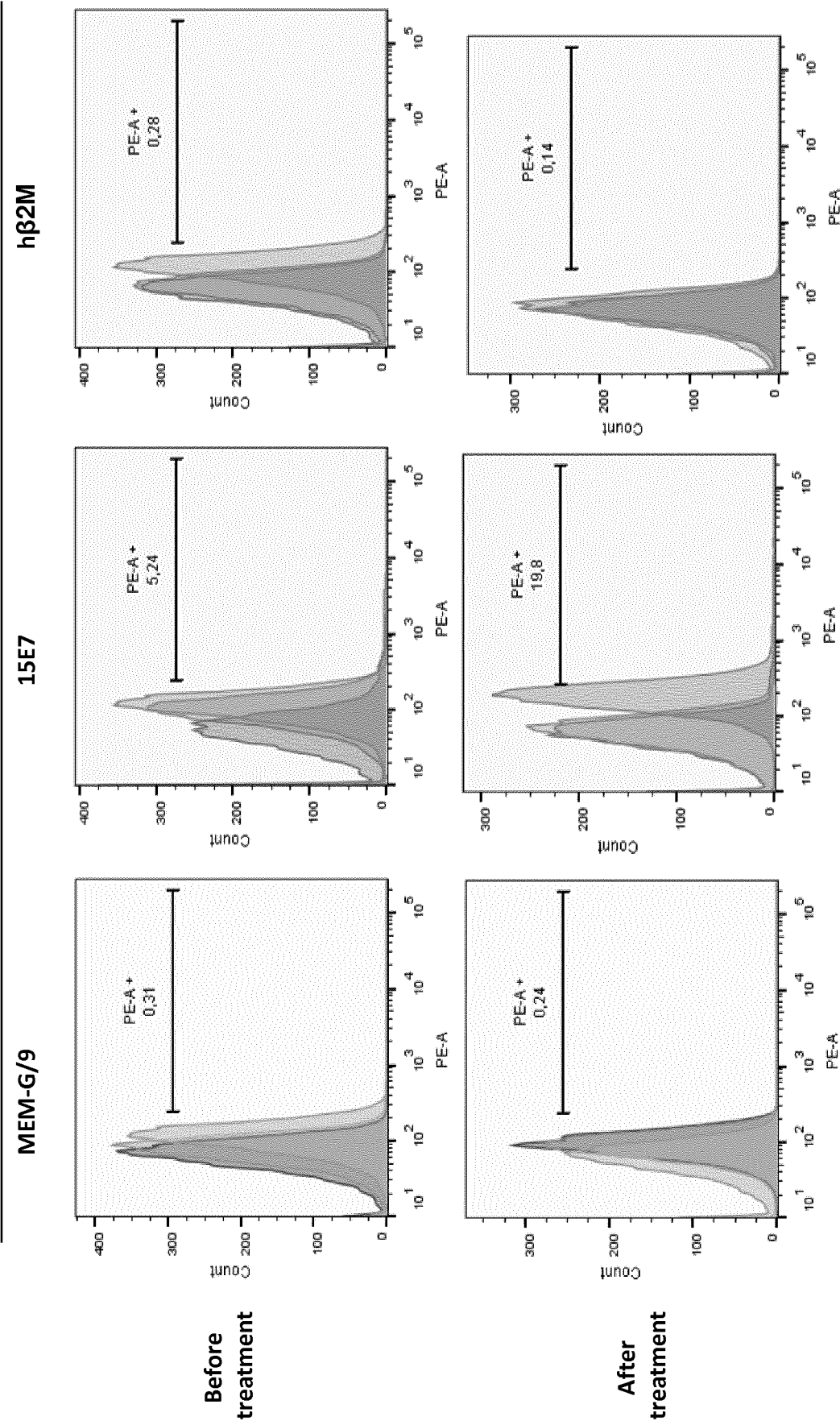
K562-G1



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Figure 9B

K562-PV



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Figure 9 C

JEG-3

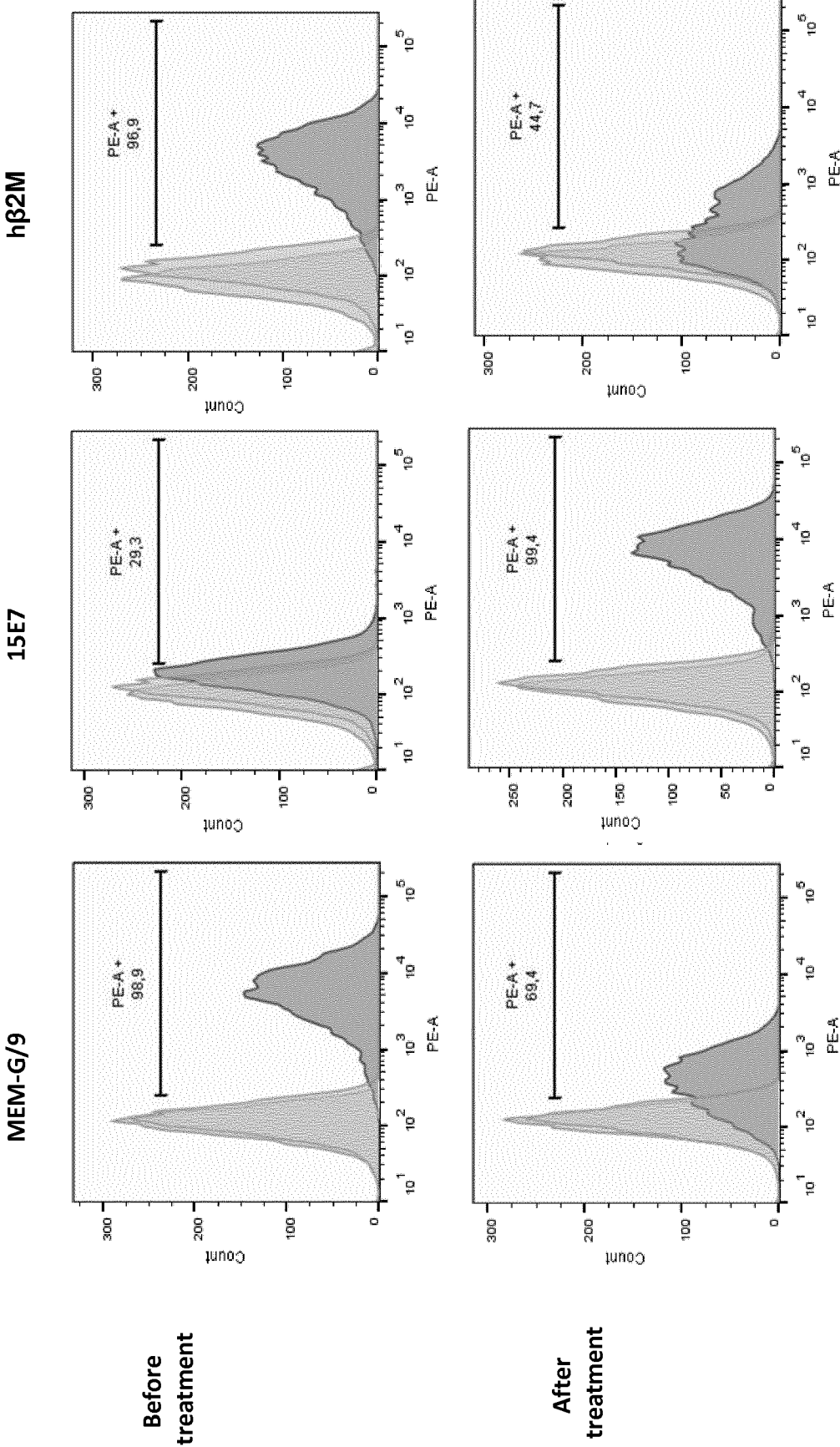


Figure 10

