

Figures

Fig. 1: Sequences (amino acids in one letter code)

VH complete: SEQ ID NO: 1-34 and SEQ ID NO: 173
 VL complete: SEQ ID NO: 35-68 and SEQ ID NO: 174

CDR-H1: SEQ ID NO: 69-85
 CDR-H2: SEQ ID NO: 86-102
 CDR-H3: SEQ ID NO: 103-119

CDR-L1: SEQ ID NO: 120-136
 CDR-L2: SEQ ID NO: 137-153
 CDR-L3: SEQ ID NO: 154-170 and 175

CR-L: SEQ ID NO: 171
 CR-H: SEQ ID NO: 172

mAB name	SEQ ID NO.	Complete Heavy-chain VR sequence
MAB-15-0139	1	EVQLEESGGGLVQPGGSLRLSCAASGFSFSSSYWICWVRQAPGKGLEWVSCIYTGSGGTYYASWEKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARDPGYSSWLWGQGT LVTVSS
MAB-15-0106	2	EVQLEESGGDLVQPGGSLRLSCAASGFSFSSSHYMCWVRQAPGKGLEWVSCIYAGSSGNTYYANWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARVDASSSGSWDLWGQGT LVTVSS
MAB-15-0108	3	EVQLEESGGRLVQPGGSLRLSCAVSGIDLSSYAMGWVRQAPGKGLEYSVITSSATTYYASWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARGGPGYSTNTHYAFDPWGGQGT LVTVSS
MAB-15-0110	4	EVQLEESGGRRVQPGRSLRLSCAVSGIDLDNYAMGWVRQAPGKGLEYSVAVISSDGGFFYDASWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARDRGTSTGSLDLWGQGT LVTVSS
MAB-15-0117	5	EVQLEESGGRLVQPGGSLRLSCAASGFSLSYYMSWVRQAPGKGLEWVSIISGSASTYYATWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARTHYAAGVAGYGYASRLDLWGQGT LVTVSS
MAB-15-0121	6	EVQLEESGGDLVQPGGSLRLSCAASGFSFSSNYWICWVRQAPGKGLELVSCIYTGNTWYASWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARDLLVVTSTFNLWGQGT LVTVSS
MAB-15-0140	7	EVQLEESGGDLVQPGGSLRLSCAASGFSFSSSYMCWVRQAPGKGLEWVSCIYAGSSGVTTYASWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCASETDGNYFNLWGQGT LVTVSS
MAB-15-0115	8	EVQLEESGGGLVQPGGSLRLSCAASGFSLSYWRWVRQAPGKGLEWVSCIYAGSGDVTTYANWVNGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCASGVGFGYFNLWGQGT LVTVSS
MAB-15-0125	9	EVQLEESGGGLVQPGGSLRLSCAASGIDFSSYYMCWVRQAPGKGLEWVSCIFIGYGDVTWYASWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARALGSSGYRVNLWGQGT LVTVSS
MAB-15-0119	10	EVQLEESGGRLVQPGGSLRLSCAASGFSLSYWMWVRQAPGKGLEWVSMIYSGSYTYASWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARDPQYFILWGQGT LVTVSS

MAB-15-0109	11	EVQLEESGGRLVQPGGSLRLSCAVSGFSLSSYDMSWVRQAPGKGLEWVSTIYIGGTTAYA SWPKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARLQGANYNSLALWGQGTLVTVS S
MAB-15-0097	12	EVQLVESGGGLVQPGGSLRLSCAASGFDSSNYMCWVRQAPGKGLELVSCIYTN SGNT WSASWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARDLNYPDTSNLWGQGTLVT VSS
MAB-15-0135	13	EVQLEESGGDLVQPGGSLRLSCAASGFSFSGYYMCWVRQAPGKGLEWVSCIYGDSSDT LYANWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARYPGGSYYNLWGQGTLVTVS S
MAB-15-0133	14	EVQLEESGGDLVQPGGSLRLSCAASGFSFSSTYYMCWVRQAPGKGLEWVSCIYAGSSGST YYASWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARVDGSSSGSWDLWGQGTLV TVSS
MAB-15-0107	15	EVQLEESGGDLVQPGGSLRLSCAASGISFSSSDFMCWVRQAPGKGLEWVSCIYAGSSVSI YYATWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARSTGSVGRGFNLWGQGTLVT VSS
MAB-15-0128	16	EVQLVESGGGLVQPGGSLRLSCAASGFSFSSYYMCWVRQAPGKGLEWVSCIYTGNSDFT YYANWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARFRDDYASLKLWGQGTLVTV SS
MAB-15-0116	17	EVQLEESGGGLVQPGGSLRLSCAASGFSFSSGYDMCWVRQAPGKGLEWVSCIYTGSGST YYANWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARNSNDWMYFNLWGQGTLV TVSS
MAB-16-0004	18	EVQLEQSGGGLVQPGGSLRLSCAASGFSFSSSYWICWVRQAPGKGLEWVACIYTGSGGT YYASWEKGRFTISKTSSTTLYLQMNSLRAEDTAVYFCARDPGYSSWLWGQGTLVTVSS
MAB-16-0009	19	EVQLEESGGDLVQPGASRLRLSCAASGFSFSSSHYMCWVRQAPGKGLEWVACIYAGSSGN TYANWAKGRFTISKTSKNTLYLQMNSLRAEDTAVYFCARVDASSSGSWDLWGQGTL VTVSS
MAB-16-0028	20	EVQLLESGGRLVQPGTSLRLSCAVSGIDLSSYAMGWVRQAPGKGLEWVGVITSSATTYYAS WAKGRFTISKTSSTTLYLQMNSLRAEDTAVYFCARGGPGYSTNTHYAFDPWGQGTLVTV SS
MAB-16-0031	21	EVQLEESGGRVVQPGTSLRLSCAVSGIDLNYAMGWVRQAPGKGLEWVAVISSDGGFFYD ASWAKGRFTISKANSKNTLYLQMNSLRAEDTAVYFCARDRGSTSGSLDLWGQGTLVTVS S
MAB-16-0043	22	QVQLEESGGRLVQPGTSLRLSCAASGFSLSYYMSWVRQAPGKGLEWVAISGSASTYYA TWAKGRFTISKTSSTTLYLQMNSLRAEDTAVYFCARTHAAVAGYGYASRLDLWGQGTLV TVSS
MAB-16-0049	23	QVQLQESGGDLVQPGGSLRLSCAASGFSFSSNYWICWVRQAPGKGLELVACIYTSTGNT WYASWAKGRFTISRDN SKNTLYLQMNSLRAEDTAVYFCARDLLVVTFSNLWGQGTLVTV SS
MAB-16-0045	24	EVQLVESGGDLVQPGASRLRLSCAASGFSFSSSYMCWVRQAPGKGLEWVACIYAGSSGV TYASWAKGRFTISDTSTTLYLQMNSLRAEDTAVYFCASETDGNYFNLWGQGTLVTVSS
MAB-16-0040	25	EVQLEQSGGGLVQPGGSLRLSCAASGFSLSYSYWRWVRQAPGKGLEWVACIYAGSGD VTTYANWVNGRFTISRDN SKSTLYLQMNSLRAEDTAVYVCASGVGFGYFNLWGQGTLVT VSS
MAB-16-0036	26	EVQLEESGGGLVQPGGSLRLSCAASGIDFSSYYMCWVRQAPGKGLEWVACIFIGYGDVT WYASWAKGRFTISKANSKNTLYLQMNSLRAEDTAVYFCARALGSSGYRVNLWGQGTLV TVSS
MAB-16-0046	27	QVQLEESGGRLVQPGASRLRLSCAASGFSLSYWMWVRQAPGKGLEWVAMIYGSYTY YASWAKGRFTISTTSTTLYLQMNSLRAEDTAVYFCARDPQYFILWGQGTLVTVSS

MAB-16-0030	28	EVQLEESGGRLVQPGTSLRLSCAVSGFSLSSYDMSWVRQAPGKGLEWVSTIYIGGTTAYA SWPKGRFTISKNTSKNTLYLQMNSLRAEDTAVYFCARLQGANYNSLALWGQGLTVTS S
MAB-16-0021	29	QVQLVESGGGLVQPGGSLRLSCAASGFDSSNYMCWVRQAPGKGLVACIYTNNGNT WSASWAKGRFTISKNTSTLYLQMNSLRAEDTAVYFCARDLNYPDTSNLWGQGLTVTS S
MAB-16-0019	30	EVQLEESGGDLVQPGGSLRLSCAASGFSFSGYYMCWVRQAPGKGLEWVACIYGDSSDT LYANWAKGRFTISKNTSKNTLYLQMNSLRAEDTAVYFCARYPGGSYYNLWGQGLTVTS S
MAB-16-0015	31	QVQLQESGGDLVQPGASRLSCAASGFSSTYYMCWVRQAPGKGLEWVACIYAGSSGS TYYASWAKGRFTISKNSSTLYLQMNSLRAEDTAVYFCARVDGSSSGSWDLWGQGLTVT SS
MAB-16-0027	32	EVQLEESGGDLVQPGASRLSCAASGISFSSDFMCWVRQAPGKGLEWVACIYAGSSVSI YYATWAKGRFTISKASSTLYLQMNSLRAEDTAVYFCARSTGSVGRGFNLWGQGLTVTS S
MAB-16-0048	33	EVQLVESGGGLVQPGGSLRLSCAASGFSFSSYYMCWVRQAPGKGLEWVGCIYTGNSDF TYYANWAKGRFTISRDNKSTLYLQMNSLRAEDTAVYFCARFRDDYASLKLWGQGLTV VSS
MAB-16-0041	34	QVQLQESGGGLVQPGGSLRLSCTASGFSFSSGYDMCWVRQAPGKGLEWVGCIYTGSGS TYYANWAKGRFTISKDNSKTTLYLQMNSLRAEDTAVYFCARNSNDWMYFNLWGQGLTV TVSS

mAb Name	SEQ ID NO.	Complete k-Light chain VR sequence
MAB-15-0139	35	DIVMTQSPSSLSASVGDRTITCQASEISNYLSWYQQKPGQAPKLLIYLASTLASGVPSRF SGSGSGTDFTLTISLQPEDFATYYCQNWVIEHNGAAFGGGTKVVIK
MAB-15-0106	36	DIQMTQSPSSLSASVGDRTITCQASEIYNLAWYQQKPGQAPKLLIYAASLLASGVPSRF SGSGSGTDFTLTISLQPEDFATYYCQSASYSTGPDWTFGQGTKVVIK
MAB-15-0108	37	DIQMTQSPSSLSASVGDRTITCQASQSIYLSWYQQKPGQAPKLLIYDASKLASGVPSRF SGSGSGTDFTLTISLQPEDFATYYCQQGATTYNVDNVFGQGTKVVIK
MAB-15-0110	38	DIVMTQSPSSLSASVGDRTITCQASENIGNLAWYQQKPGQAPKLLIYGASTLASGVPS RFSGSGSGTDFTLTISLQPEDFATYYCQCTYWNPDYIGGAFGGGTGVVIK
MAB-15-0117	39	DIQMTQSPSSLSASVGDRTITCLASEDIYSGISWYQQKPGKAPKLLIYAASNLESVPSRF SGSGSGTDFTLTISLQPEDFATYYCLGGYSYNTGPTFGQGTKVEIK
MAB-15-0121	40	DIVMTQSPSSLSASVGDRTITCQASEDIYNLAWFQQKPGQAPKLLIYGASTLASGVPSR FSGSGSGTEFTLTISLQPEDFATYYCLGVCTDISTDDLNAFGQGTKVVIK
MAB-15-0140	41	DIVMTQSPSSLSASVGDRTITCQASEDIYNLAWFQQKPGQAPKLLIYRASTLASGVPSR FSGSGSGTEFTLTISLQPEDFATYYCLGVYTYSTDIHAFGGGTGVVIK
MAB-15-0115	42	DIVMTQSPSSLSASVGDRTITCQASEDIYNLAWFQQKPGQAPKLLIYDASTLASGVPSR FSGSGSGTEFTLTISLQPEDFATYYCLGVYTHISADNAFGGGTKVVIK
MAB-15-0125	43	DIQMTQSPSSLSASVGDRTITCQASENIYSSLAWYQQKPGQAPKLLIYDASDLASGVPSR FSGSGSGTDFTLTISLQPEDFATYYCQQGYSGGTDNDVFGGGTKVVIK
MAB-15-0119	44	DIVMTQSPSSLSASVGDRTITCQSSQSVDGNNLSWYQQKPGQAPKLLIYDASNLASGV PSRFSGSGSGTDFTLTISLQPEDFATYYCQGSYYSSSWYNVFGQGTKVVIK
MAB-15-0109	45	DIQMTQSPSSLSASVGDRTITCQASQSIYFLSWYQQKPGQAPKLLIYAASDLESVPSRF SGSGSGTDFTLTISLQPEDFATYYCQCNIIIDYGAFGQGTKVVIK

MAB-15-0097	46	DIQMTQSPSSLSASVGDRVITITCQASQSIGYYLAWYQQKPGQAPKLLIYRASTLASGVPSR FSGSGSGTDFTLTISSLQPEDFATYYCQSYNSDSDAFGQGTKVVIK
MAB-15-0135	47	DIVMTQSPSSLSASVGDRVITITCQASQTISINLAWYQQKPGQAPKLLIYASTLASGVPSRF SGSGSGTDFTLTISSLQPEDFATYYCQQGYTEDNIDNTFGQGTKVVIK
MAB-15-0133	48	DIQMTQSPSSLSASVGDRVITITCQASQNIYSNLAWYQQKPGQAPKLLIYAASLLASGVPSR FSGSGSGTDFTLTISSLQPEDFATYYCQGAVYSGNTEWAFGQGTKVVIK
MAB-15-0107	49	DIVMTQSPSSLSASVGDRVITITCQASQSVYNSNHLWSYQQKPGQAPKLLIYASTLASGVP SRFSGSGSGTDFTLTISSLQPEDFATYYCQGEFSCVSADCIAGGGGTKVVIK
MAB-15-0128	50	DIQMTQSPSSLSASVGDRVITITCQASQSISSYLSWYQQKPGQAPKLLIYGASNLASGVPSR FSGSGSGTDFTLTISSLQPEDFATYYCQCTYYDNNYGGAFGGGTKVVIK
MAB-15-0116	51	DIVMTQSPSSLSASVGDRVITITCQASEISANYWSWYQQKPGQAPKLLIYGASTLASGVPS RFSGSGSGTDFTLTISSLQPEDFATYFCQSWYYSGSGSYHSWAFGQGTKVVIK
MAB-16-0004	52	DIVMTQSPSSLSASVGDRVITITCQASEISNYLSWYQQKPGQAPKLLIYLASTLASGVPSRF SGSGSGTDFTLTISSLQPEDFATYYCQNWVIEHNGAAFGGGTKVVIK
MAB-16-0009	53	AIQMTQSPSSLSASVGDRVITITCQASESIYSNLAWYQQKPGQAPKLLIYAASLLASGVPSRF SGSGSGTDYTLTISSLQPEDFATYYCQSASYSTGPDWTFGQGTKVVIK
MAB-16-0028	54	AIRMTQSPSSLSASVGDRVITITCQASQSIYILSWYQQKPGQAPKLLIYDASKLASGVPSRF SGSGSGTDFTLTISSLQPEDFATYYCQQGATTYNVDNVFGQGTKVVIK
MAB-16-0031	55	ELVMTQSPSSLSASVGDRVITITCQASENIGNLAWYQQKPGQAPKLLIYGASTLASGVPS RFSGSGSGTDFTLTISSLQPEDFATYYCQCTYWNPDYIGGAFGGGTKVVIK
MAB-16-0043	56	AIQMTQSPSSLSASVGDRVITITCLASEDIYSGISWYQQKPGKAPKLLIYAASNLESGVPSRFS GSGSGTDYTLTISSLQPEDFATYYCLGGYSYNTGPTFGQGTKVEIK
MAB-16-0049	57	DIVMTQSPSSLSASVGDRVITITCQASEDIYSNLAWFQQKPGQAPKLLIYGASTLASGVPSR FSGSGSGTEFTLTISSLQPEDFATYYCLGVCTDISTDDLNAFGQGTKVVIK
MAB-16-0045	58	DIVMTQSPSSLSASVGDRVITITCQASEDIYSNLAWFQQKPGQAPKLLIYRASTLASGVPSR FSGSGSGTEFTLTISSLQPEDFATYYCLGVYTYSTDIHAFGGGTKVVIK
MAB-16-0040	59	ELVMTQSPSSLSASVGDRVITITCQASEDIYSNLAWFQQKPGQAPKLLIYDASTLASGVPSR FSGSGSGTEFTLTISSLQPEDFATYYCLGVYTHISADNAFGGGTKVEIK
MAB-16-0036	60	ALQMTQSPSSLSASVGDRVITITCQASENIYSSLAWYQQKPGQAPKLLIYDASDLASGVPSR FSGSGSGTDFTLTISSLQPEDFATYYCQQGYSSGGTDNDVFGGGTKVVIK
MAB-16-0046	61	NIVMTQSPSSLSASVGDRVITITCQSSQSVDGNNLLSWYQQKPGQAPKLLIYDASNLASGV PSRFSGSGSGTDFTLTISSLQPEDFATYYCQGSYYSSSWYNVFGQGTKVVIK
MAB-16-0030	62	DVQMTQSPSSLSASVGDRVITITCQASQSIYSFLSWYQQKPGQAPKLLIYAASDLESGVPSR FSGSGSGTDFTLTISSLQPEDFATYYCQCNYYIDYGAFGQGTKVVIK
MAB-16-0021	63	DIQMTQSPSSLSASVGDRVITITCQASQSIGYYLAWYQQKPGQAPKLLIYRASTLASGVPSR FSGSGSGTDFTLTISSLQPEDFATYYCQSYNSDSDAFGQGTKVVIK
MAB-16-0019	64	AIVMTQSPSSLSASVGDRVITITCQASQTISINLAWYQQKPGQAPKLLIYASTLASGVPSRF SGSGSGTDFTLTISSLQPEDFATYYCQQGYTEDNIDNTFGQGTKVVIK
MAB-16-0015	65	AIQMTQSPSSLSASVGDRVITITCQASQNIYSNLAWYQQKPGQAPKLLIYAASLLASGVPSR FSGSGSGTDYTLTISSLQPEDFATYYCQGAVYSGNTEWAFGQGTKVVIK
MAB-16-0027	66	DIVMTQSPSSLSASVGDRVITITCQASQSVYNSNHLWSYQQKPGQAPKLLIYASTLASGVP SRFSGSGSGTDFTLTISSLQPEDFATYYCQGEFSCVSADCIAGGGGTKVVIK
MAB-16-0048	67	DVVMQSPSSLSASVGDRVITITCQASQSISSYLSWYQQKPGQAPKLLIYGASNLASGVPSR FSGSGSGTDFTLTISSLQPEDFATYYCQCTYYDNNYGGAFGGGTKVEIK
MAB-16-0041	68	DIVMTQSPSSLSASVGDRVITITCQASEISANYWSWYQQKPGQAPKLLIYGASTLASGVPS RFSGSGSGTDFTLTISSLQPEDFATYFCQSWYYSGSGSYHSWAFGQGTKVVIK

mAB name		SEQ ID NO.	CDR-H1	SEQ ID NO.	CDR-H2	SEQ ID NO.	CDR-H3
MAB-15-0139	MAB-16-0004	69	SSYWIC	86	CIYTGSGGTYTASWEKG	103	DPGYSSWL
MAB-15-0106	MAB-16-0009	70	SSHVMC	87	CIYAGSSGNTYYANWAKG	104	VDASSSGSWDL
MAB-15-0108	MAB-16-0028	71	SYAMG	88	VITSSATTYYASWAKG	105	GGPGYSTNTHYAFDP
MAB-15-0110	MAB-16-0031	72	NYAMG	89	VISSDGFFYDASWAKG	106	DRGTSTGSLDL
MAB-15-0117	MAB-16-0043	73	SYVMS	90	IISGSASTYYATWAKG	107	THYAAVAGYGYASRLDL
MAB-15-0121	MAB-16-0049	74	SNYWIC	91	CIYTSTGNTWYASWAKG	108	DLLVVTSENL
MAB-15-0140	MAB-16-0045	75	SSVVMC	92	CIYAGSSGVTYTASWAKG	109	ETDGNVFNL
MAB-15-0115	MAB-16-0040	76	TSYVRC	93	CIYAGSGDVTYYANWVNG	110	GVGFGYFNL
MAB-15-0125	MAB-16-0036	77	SVVVMC	94	CIFIGYGDVTWYASWAKG	111	ALGSSGYRVNL
MAB-15-0119	MAB-16-0046	78	SYVMS	95	MIYGSgyTYTASWAKG	112	DPQYFIL
MAB-15-0109	MAB-16-0030	79	SYDMS	96	TIYIGGTTAYASWPKG	113	LQGANYNSLAL
MAB-15-0097	MAB-16-0021	80	SNVVMC	97	CIYTNsgNTWSASWAKG	114	DLNYPDTSNL
MAB-15-0135	MAB-16-0019	81	FGVVMC	98	CIYGDSSDTLYANWAKG	115	YPGGSYYNL
MAB-15-0133	MAB-16-0015	82	STVVMC	99	CIYAGSSGSTYYASWAKG	116	VDGSSSGSWDL
MAB-15-0107	MAB-16-0027	83	SSDFMC	100	CIYAGSSSVIYYATWAKG	117	STGSVGRGFNL

MAB-15-0128	MAB-16-0048	84	SIYYMC	101	CIYTGNSDFTYYANWAKG	118	FRDDYASLKL
MAB-15-0116	MAB-16-0041	85	SGYDMC	102	CIYTGSGSTYYANWAKG	119	NSNDWMYFNL

mAB name		SEQ ID NO.	CDR-L1	SEQ ID NO.	CDR-L2	SEQ ID NO.	CDR-L3
MAB-15-0139	MAB-16-0004	120	QASESISNYLS	137	LASTLAS	154	QNWWVIEHNGAA
MAB-15-0106	MAB-16-0009	121	QASESIYSNLA	138	AASLLAS	155	QSASYSTGPDWT
MAB-15-0108	MAB-16-0028	122	QASQSIYIYLS	139	DASKLAS	156	QQGATTYNVDNV
MAB-15-0110	MAB-16-0031	123	QASENIGNGLA	140	GASTLAS	157	QCTYWNPDIYIGGA
MAB-15-0117	MAB-16-0043	124	LASEDIYSGIS	141	AASNLES	158	LGGYSYSNTGPT
MAB-15-0121	MAB-16-0049	125	QASEDIYSNLA	142	GASTLAS	159	LGVCTDISTDDLNA
MAB-15-0140	MAB-16-0045	126	QASEDIYSNLA	143	RASTLAS	160	LGVYTYSTDIHA
MAB-15-0115	MAB-16-0040	127	QASEDIYSNLA	144	DASTLAS	161	LGVYTHISADNA
MAB-15-0125	MAB-16-0036	128	QASENIYSSLA	145	DASDLAS	162	QQGYYSGGTDNDV
MAB-15-0119	MAB-16-0046	129	QSSQSVDGNN LLS	146	DASNLAS	163	QGSYYSSSWYNV
MAB-15-0109	MAB-16-0030	130	QASQSIYSFLS	147	AASDLES	164	QCNYIIDYGA
MAB-15-0097	MAB-16-0021	131	QASQSIGYYLA	148	RASTLAS	165	QSYNSDSDA

MAB-15-0135	MAB-16-0019	132	QASQTISINLA	149	YASTLAS	166	QQGYTEDNIDNT
MAB-15-0133	MAB-16-0015	133	QASQNIYSNLA	150	AASLLAS	167	QGAVYSGNTEWA
MAB-15-0107	MAB-16-0027	134	QASQSVYNSN HLS	151	SASTLAS	168	QGEFSCVSAD CIA
MAB-15-0128	MAB-16-0048	135	QASQSISSYLS	152	GASNLAS	169	QCTYYDNNYGGA
MAB-15-0116	MAB-16-0041	136	QASESISANYW S	153	GASTLAS	170	QSWYYSGSGSYH SWA

SEQ ID NO.	Constant region sequences (CR)
171	RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLS STLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
172	ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTWNSGALTSKVHTFPFAVLQSSGLYSLSSVVT VPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPEAAGGPSVFLFPPKPKDTLMISRT EVTCTVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKV NKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKT TPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPG

mAB name	SEQ ID NO.	Complete Heavy-chain VR seq
MAB-16-0150	173	EVQLLESGGRLVQPGTSLRLSCAIVSGIDLSSYAMGWVRQAPGKGLYVGVITSSATYYAS WAKGRFTISKTSKNTLYLQMNSLRAEDTAVYFCARGGPGYSTNTHYAFDPWGQGTLVT VSS

mAB name	SEQ ID NO.	Complete light-chain VR seq
MAB-16-0149	174	DVQMTQSPSSLSASVGRVTITCQASQSIYSFLSWYQQKPGQAPKLLIYAASDLESGVPSR FSGSGSGTDFTLTISLQPEDFATYYCQSNYIIDYGAFGQGKTVIK
		CDR-L3
MAB-16-0149	175	QSNYIIDYGA

mAB name	CDR-H1 SEQ ID NO.	CDR-H2 SEQ ID NO.	CDR-H3 SEQ ID NO.	CDR-L1 SEQ ID NO.	CDR-L2 SEQ ID NO.	CDR-L3 SEQ ID NO.	VH SEQ ID NO.	VL SEQ ID NO.
MAB-16-0150	71	88	105	122	139	156	173	54
MAB-16-0149	79	96	113	130	147	175	28	174

Fig.2: Human IL-1R3 ELISA

Antibody ID	huIL1RaP ELISA EC50 [ng/ml]
MAB-16-0015	1,6
MAB-16-0019	28,1
MAB-16-0021	20,8
MAB-16-0004	8,0
MAB-16-0009	4,9
MAB-16-0027	5,3
MAB-16-0030	4,5
MAB-16-0040	6,6
MAB-16-0043	13,2
MAB-16-0046	7,4
MAB-16-0049	20,6
MAB-16-0028	6,0
MAB-16-0031	8,2
MAB-16-0041	15,2
MAB-16-0036	5,9
MAB-16-0045	28,4
MAB-16-0048	7,4
Reference AF676	79,6

Fig.3: HEK293 reporter assay

Antibody ID	HEK reporter assay (IL1b) EC50 [ng/ml]
MAB-16-0015	27,3
MAB-16-0019	2,5
MAB-16-0021	33,0
MAB-16-0004	67,1
MAB-16-0009	18,2
MAB-16-0027	37,3
MAB-16-0030	8,7

MAB-16-0040	9,4
MAB-16-0043	27,0
MAB-16-0046	6,1
MAB-16-0049	42,6
MAB-16-0028	5,1
MAB-16-0031	23,3
MAB-16-0041	0,1
MAB-16-0036	9,5
MAB-16-0045	90,2
MAB-16-0048	16,3
Reference AF676	234

Fig. 4: NFkB luciferase reporter assay using an A549 stable cell line

Antibody ID	Signosis NFkB A549 (IL-1b) EC50 [ng/ml]
MAB-16-0015	+
MAB-16-0019	++
MAB-16-0021	+
MAB-16-0004	++
MAB-16-0009	+++
MAB-16-0027	++
MAB-16-0030	+++
MAB-16-0040	+
MAB-16-0043	+
MAB-16-0046	+++
MAB-16-0049	+
MAB-16-0028	+++
MAB-16-0031	+
MAB-16-0041	+
MAB-16-0036	+++
MAB-16-0045	+
MAB-16-0048	+
Reference AF676	+

Fig. 5: Cell binding analysis: Binding to IL-1R3 expressing cells

	NIH-3T3	A549	HEK-293	SK-MEL-30
Antibody	MFI – fold over isotype control			
MAB-16-0019	1,2	2,7	3,6	79,0
MAB-16-0030	0,9	2,4	2,8	69,7

MAB-16-0040	1,0	2,6	3,0	73,7
MAB-16-0036	1,1	2,0	3,0	70,6
MAB-16-0149	1,1	2,4	3,4	77,7
MAB-16-0150	1,1	3,2	4,8	87,1

Fig. 6: Cell binding analysis: Cell binding on human-IL-1R3 high expressing cell line SK-MEL-30

Antibody	EC50 (ng/mL)
MAB-16-0030	307
MAB-16-0149	306

Fig. 7: Human-IL-1R3 biochemical ELISA

Antibody	EC50 (ng/mL)
MAB-16-0149	16,3
MAB-16-0150	29,1

Fig. 8: Inhibition of human IL-1a and IL-1b mediated NFkB signaling in A549-NFkB-RE-Luc cells

	Stimulated with hIL-1a	Stimulated with hIL-1b
Antibody	EC50 (ng/mL)	EC50 (ng/mL)
MAB-16-0019	56	140
MAB-16-0030	156	149
MAB-16-0040	969	636
MAB-16-0036	199	25
MAB-16-0149	167	109
MAB-16-0150	211	11
AF676	3134	919

Fig. 9: IL-1 α and IL-1 β functional neutralization assay - Inhibition of human IL-1a and IL-1b mediated IL-6 release by A-549 cells

	Stimulated with hIL-1a	Stimulated with hIL-1b
Antibody	EC50 (ng/mL)	EC50 (ng/mL)
MAB-16-0019	546	180
MAB-16-0030	361	346
MAB-16-0040	2246	234
MAB-16-0036	378	253
MAB-16-0149	266	108
MAB-16-0150	1464	313
AF676	>10000	>10000

Fig. 10: IL-33 functional neutralization assay - Inhibition of human IL-33 mediated Nf κ B-signaling in HEK-Blue-IL33™ cells

	Stimulated with hIL33
Antibody	EC50 (ng/mL)
MAB-16-0019	376
MAB-16-0030	909
MAB-16-0040	17195
MAB-16-0036	426
MAB-16-0149	432
MAB-16-0150	2115
AF676	26114

Fig. 11: IL-36 functional neutralization assay - Inhibition of human IL-36 mediated NfκB-signaling in HEK-293/17-IF cells

	Stimulated with hIL36
Antibody	EC50 (ng/mL)
MAB-16-0019	11
MAB-16-0030	13
MAB-16-0040	42
MAB-16-0036	14
MAB-16-0149	18
MAB-16-0150	13
AF676	502

Fig. 12: Neutralization of IL-1 α , IL-33 and IL-36 α - Neutralization of IL-1 α , IL-33 and IL-36 α mediated cellular cytokine release by IL-1Ra and MAB-16-0030

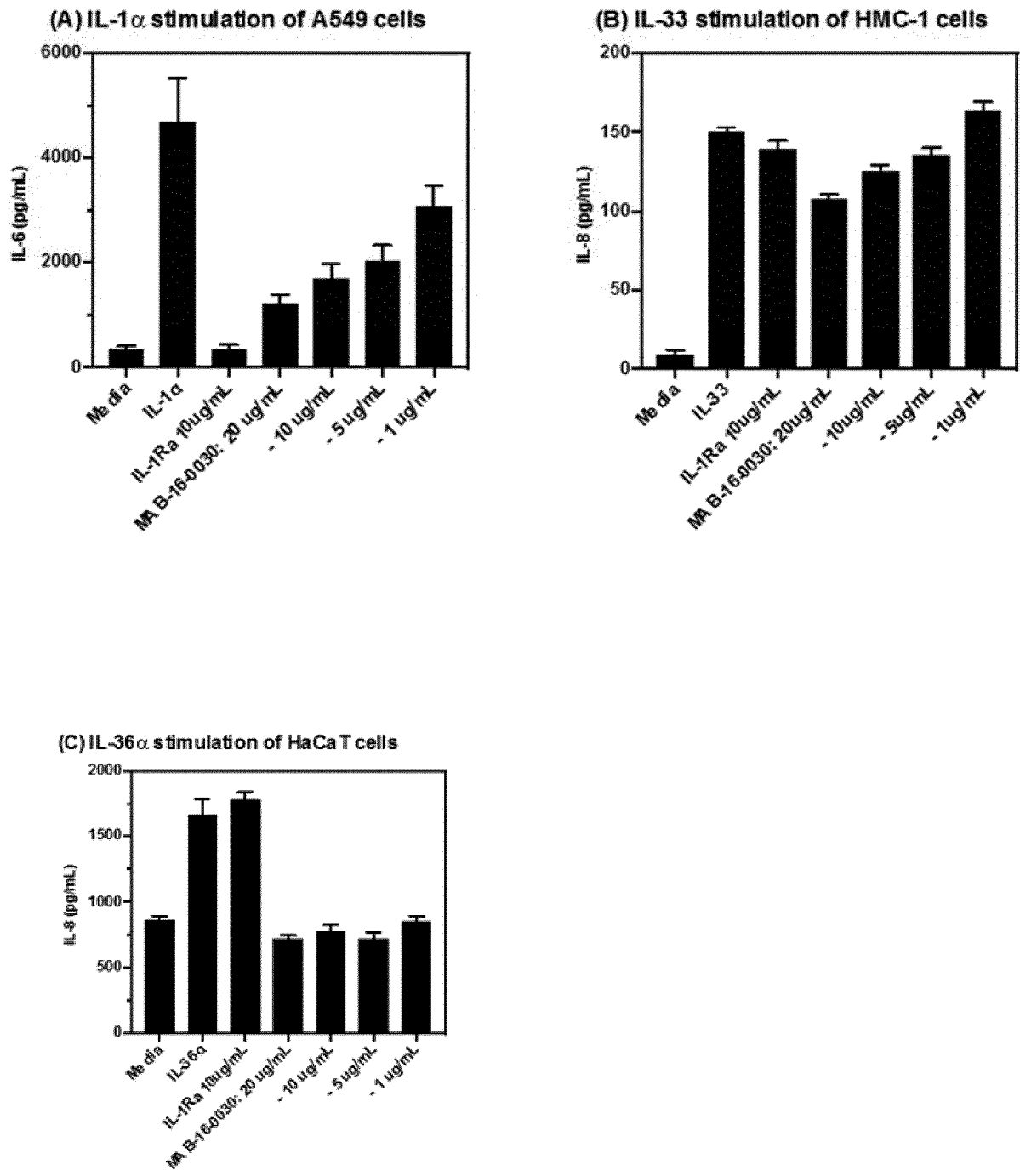
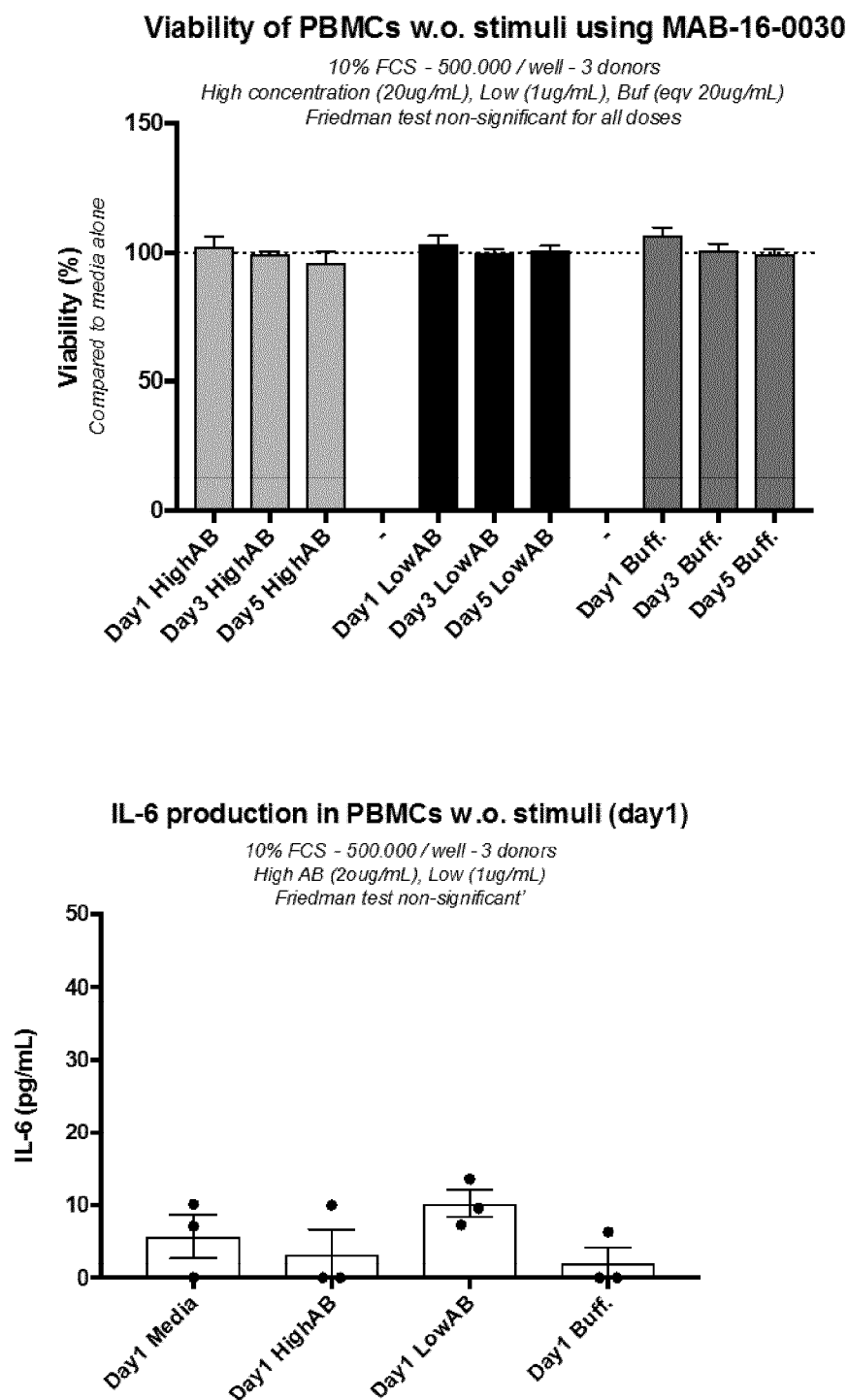


Fig. 13: Viability and IL-6 of unstimulated PBMC treated with humanized anti-IL-1R3 IgG1-LALA antibody MAB-16-0030



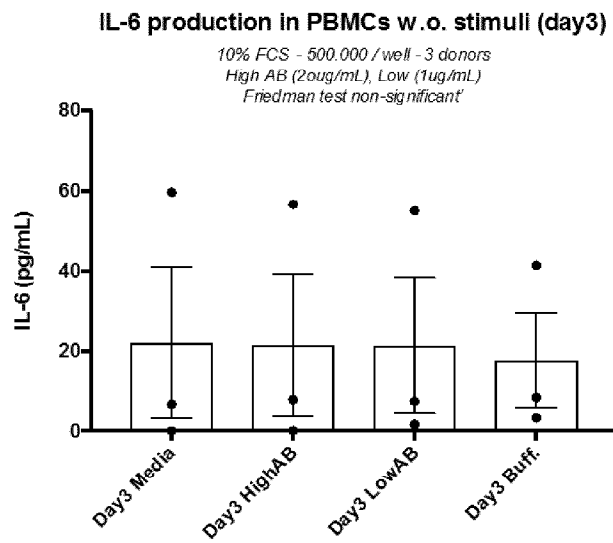
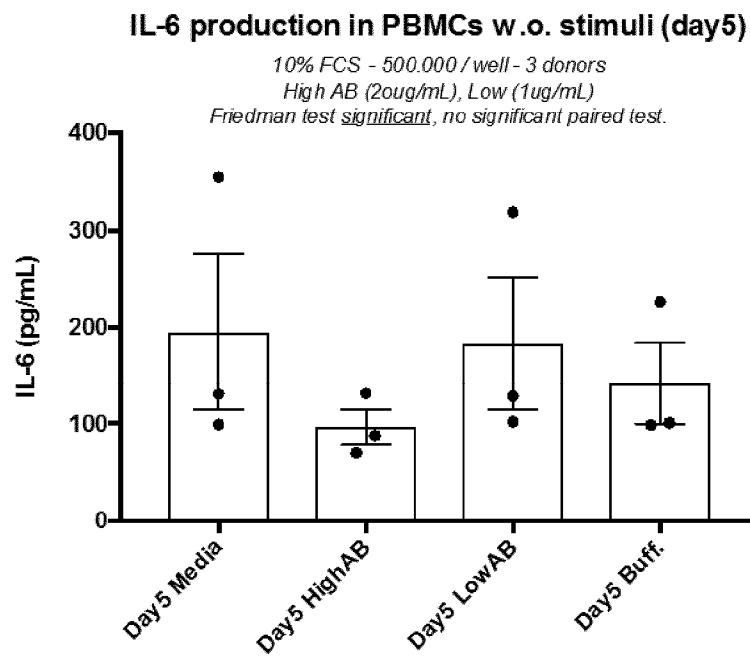
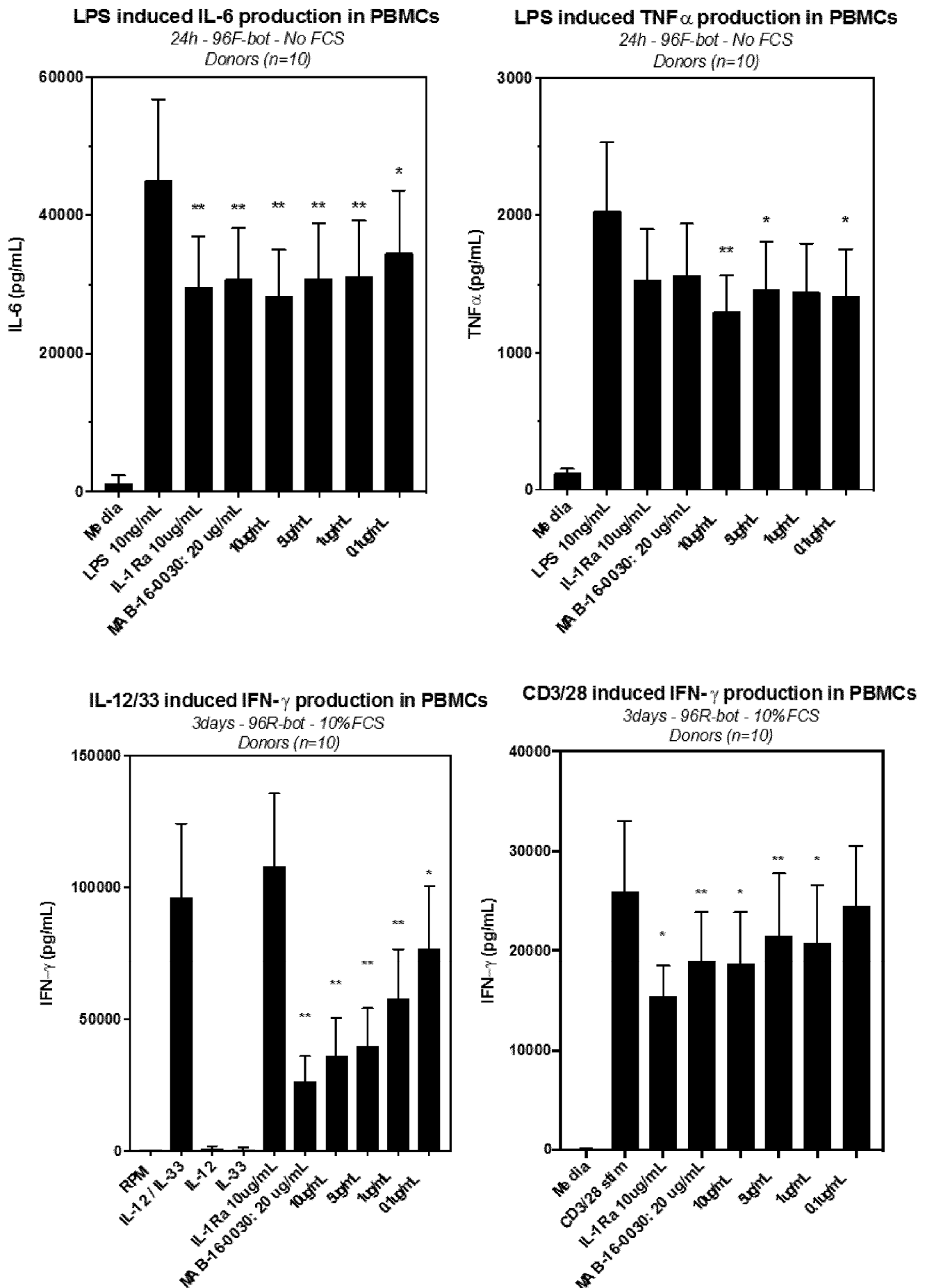


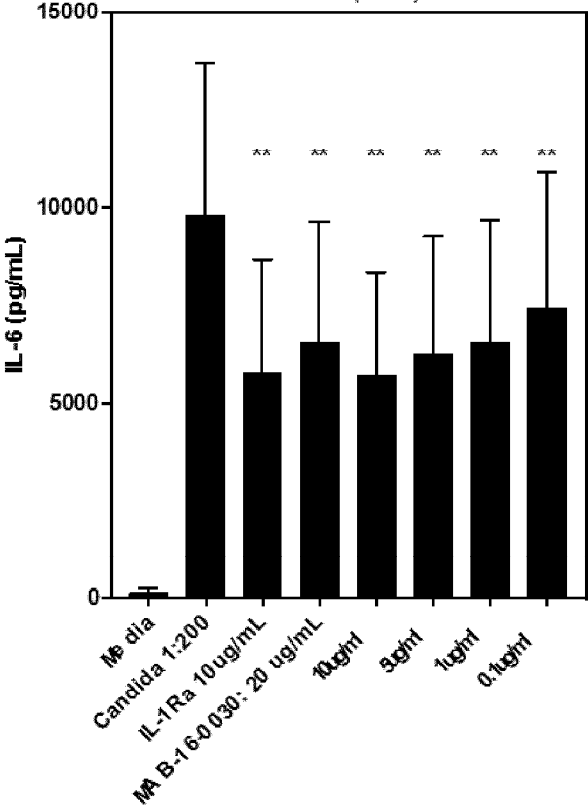
Fig. 14: Functional blockage of PBMCs activated with different stimuli



Candida induced IL-6 production in PBMCs

5days - 96R-bot - 10%FCS

Donors (n=10)



Candida induced IL-17 production in PBMCs

5days - 96R-bot - 10%FCS

Donors (n=10)

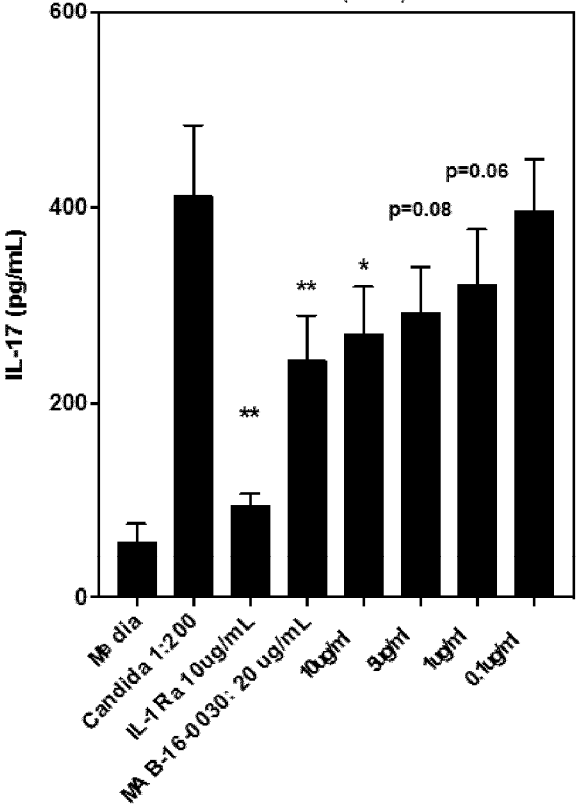


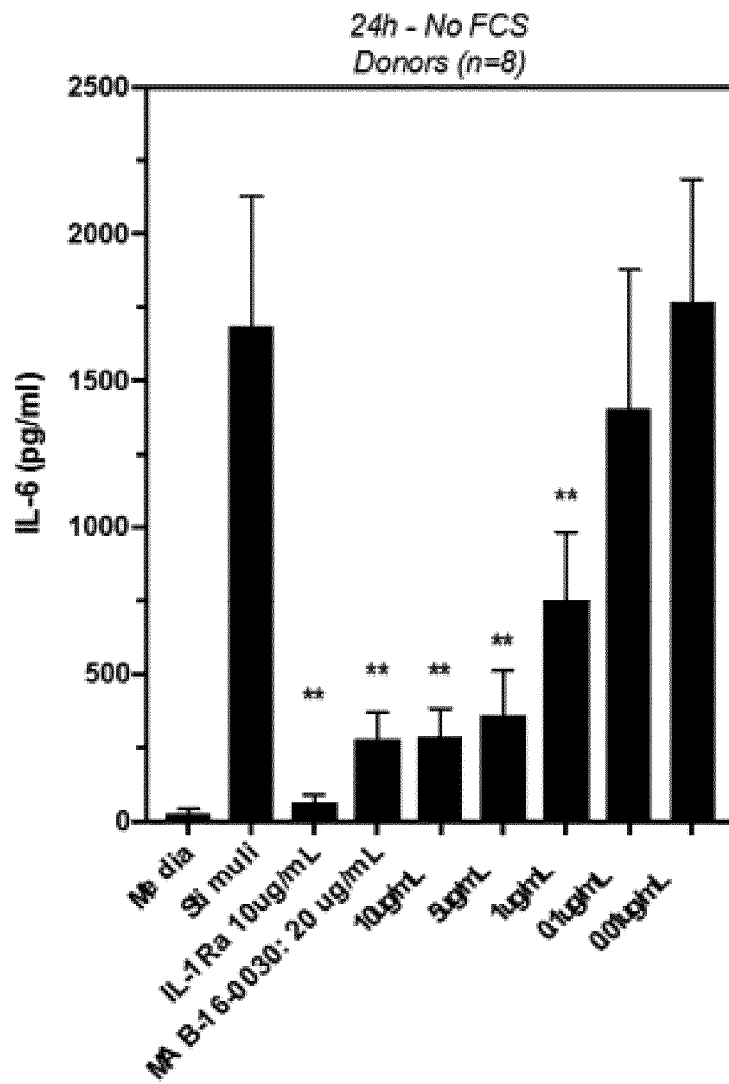
Fig. 15: Functional blockage of immune cells in whole blood activated with *Candida albicans*

Fig. 16: Blockage of cytokine release in Mixed Lymphocyte Reactions (MLR)

