

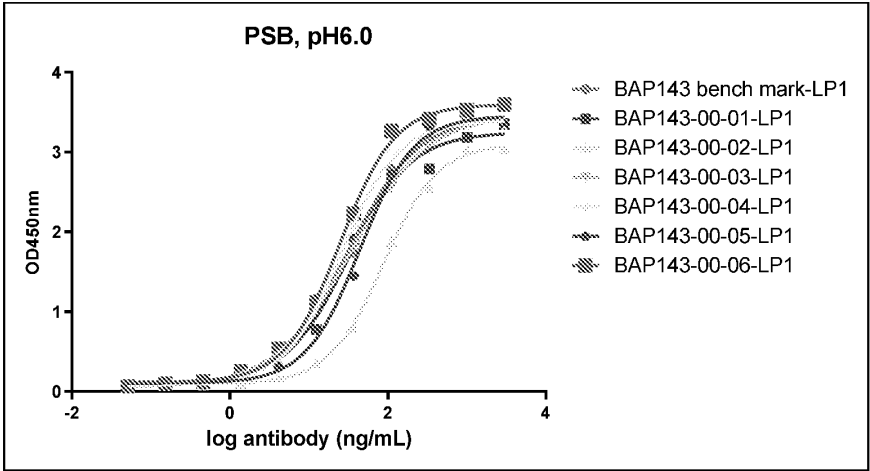


FIG. 1

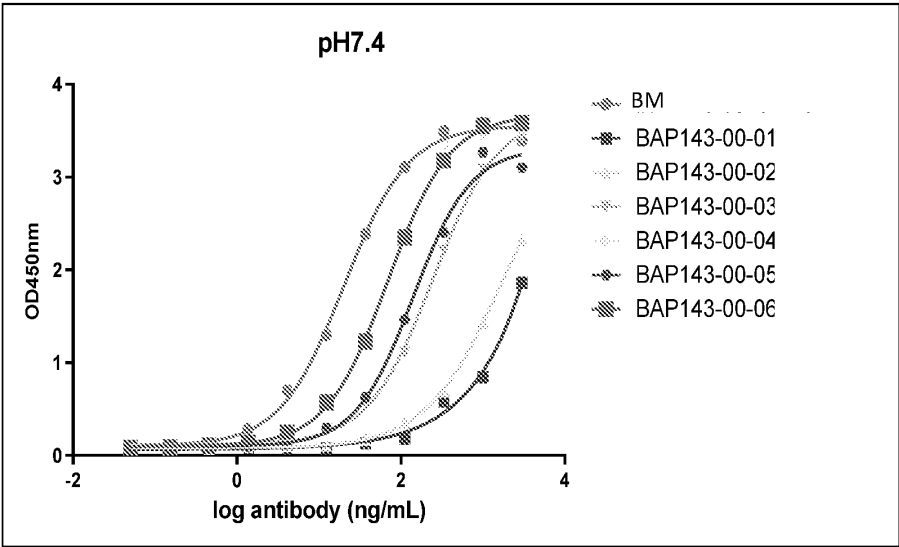


FIG. 2

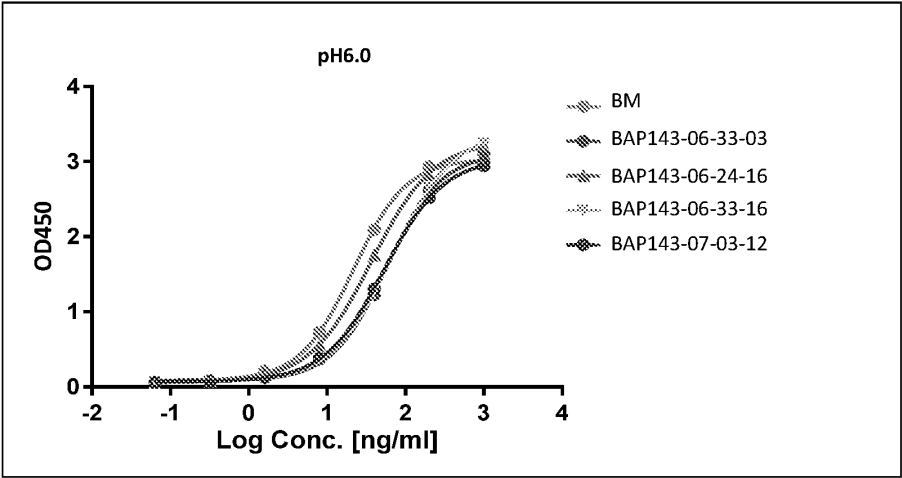


FIG. 3

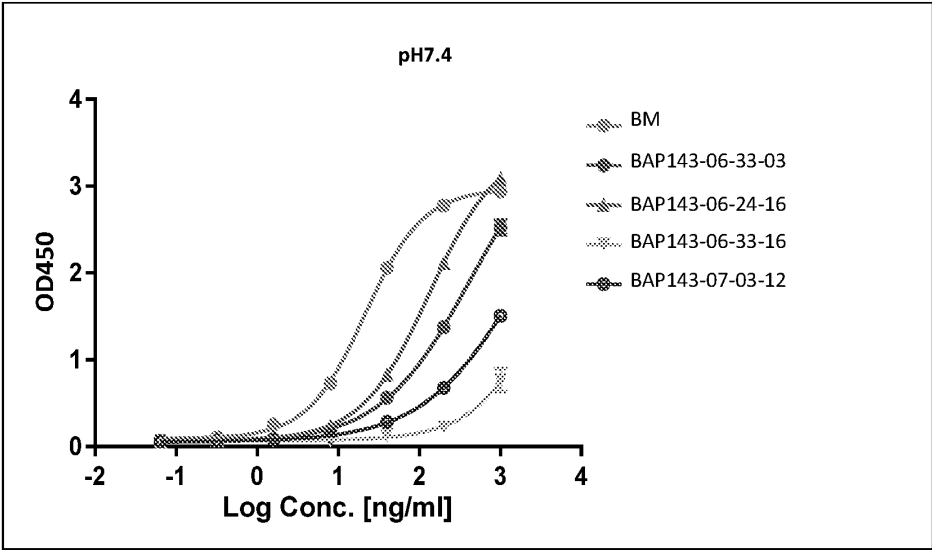


FIG. 4

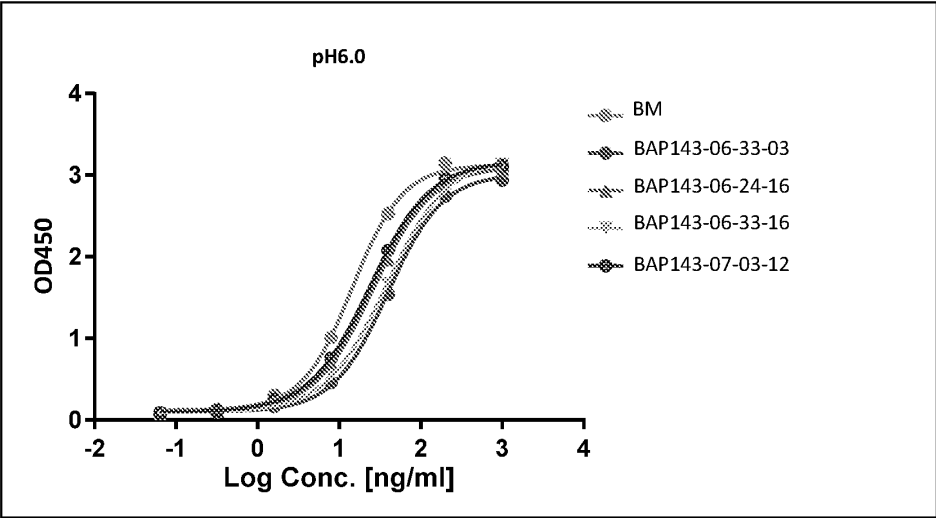


FIG. 5

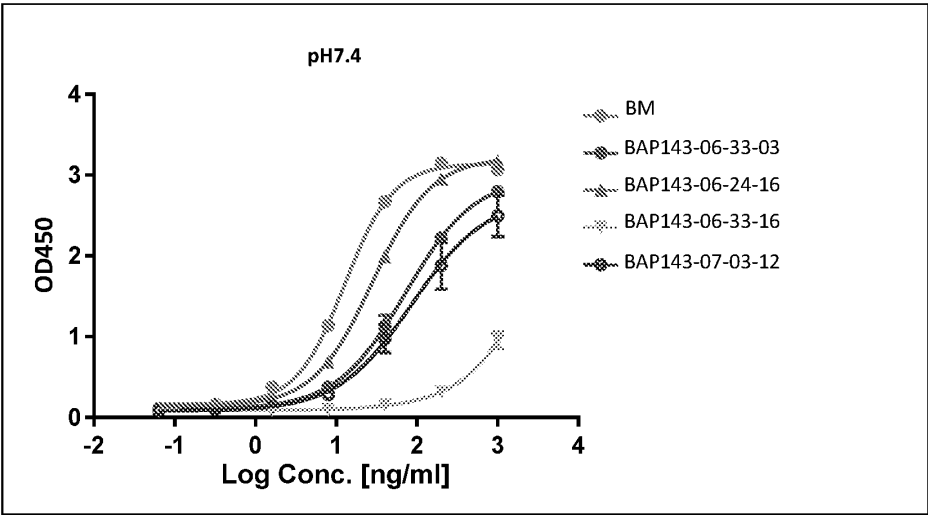


FIG. 6

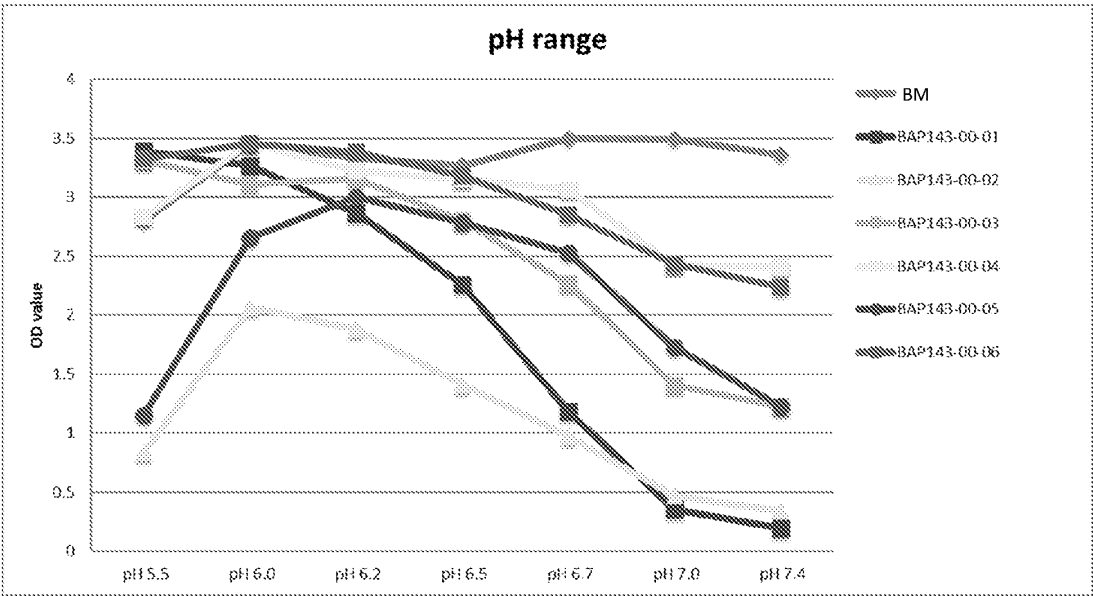


FIG. 7

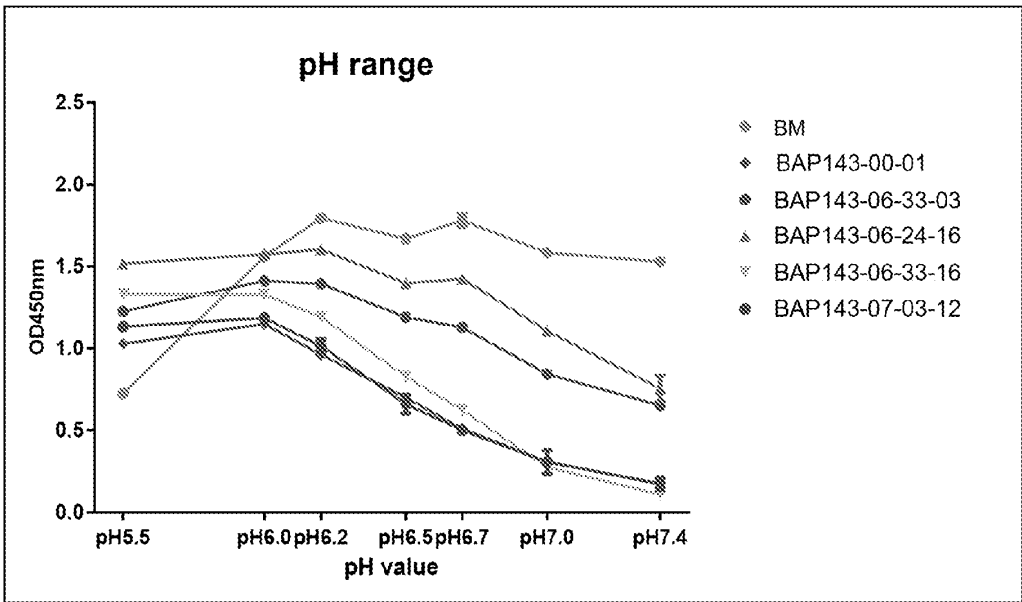


FIG. 8

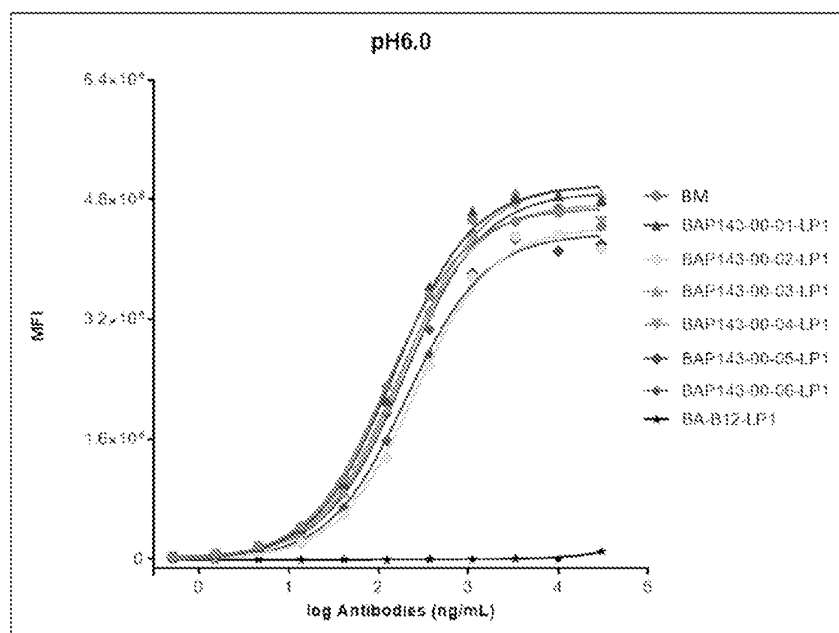


FIG. 9

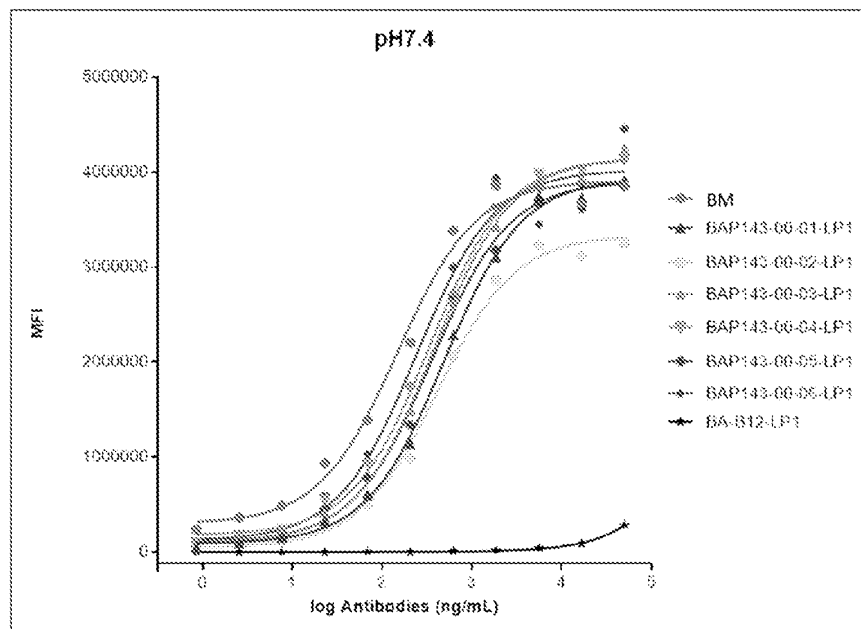


FIG. 10

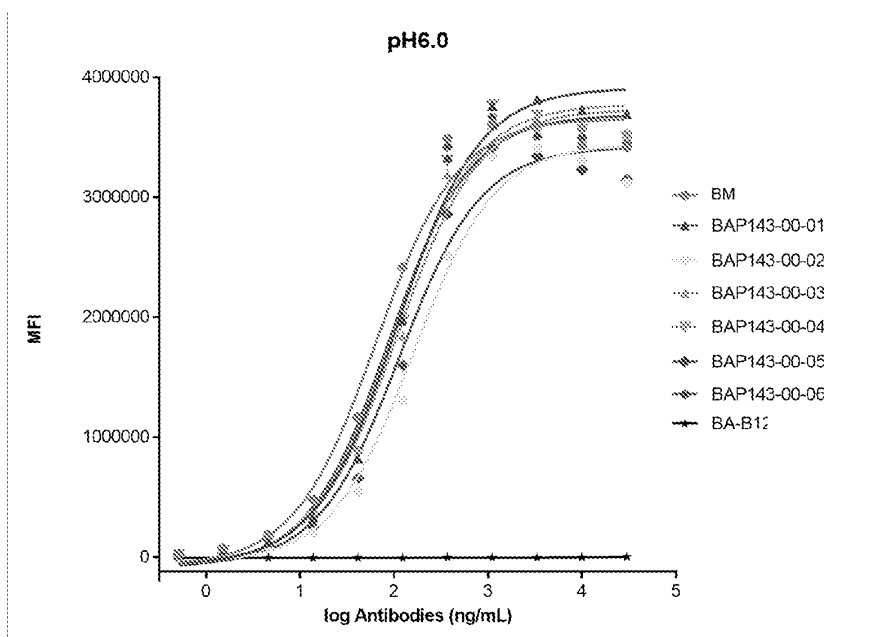


FIG. 11

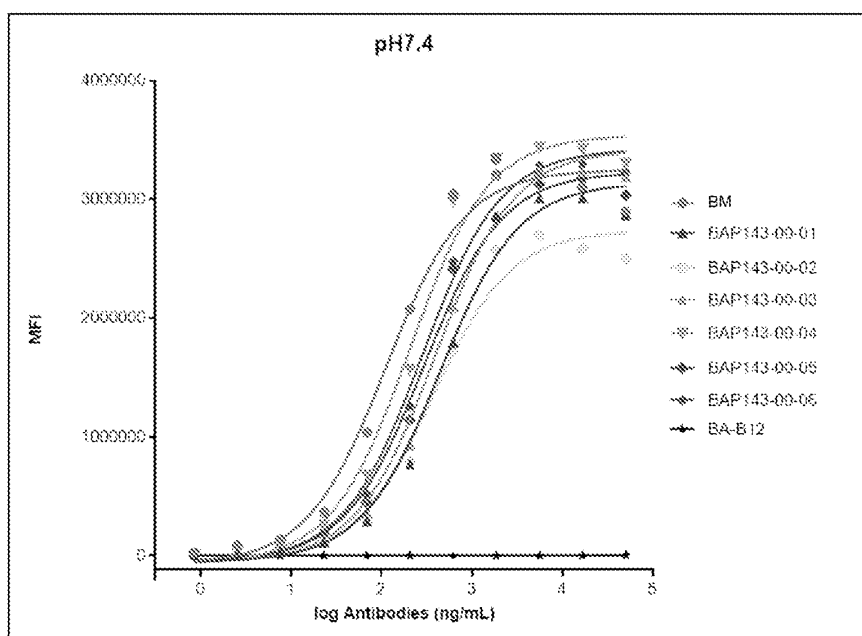


FIG. 12

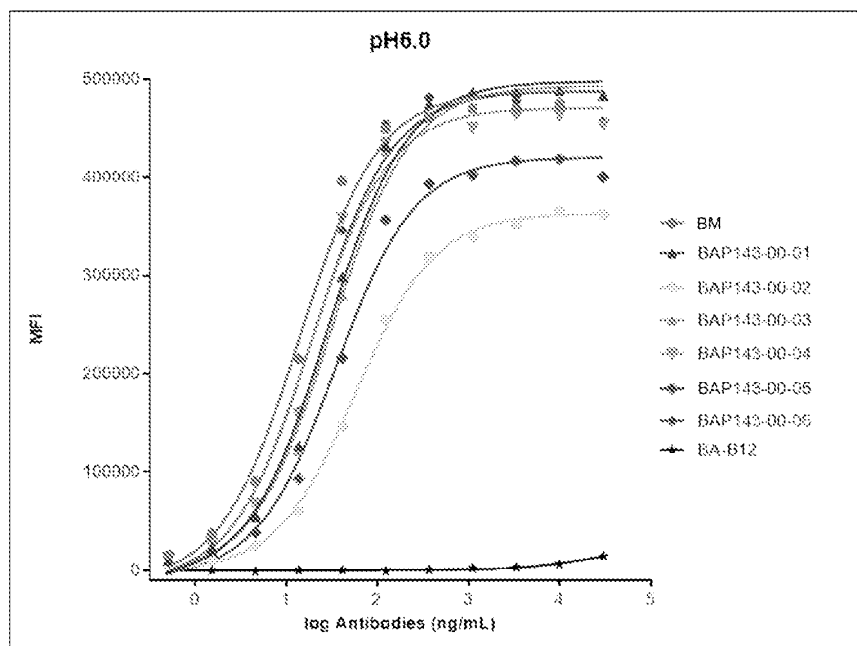


FIG. 13

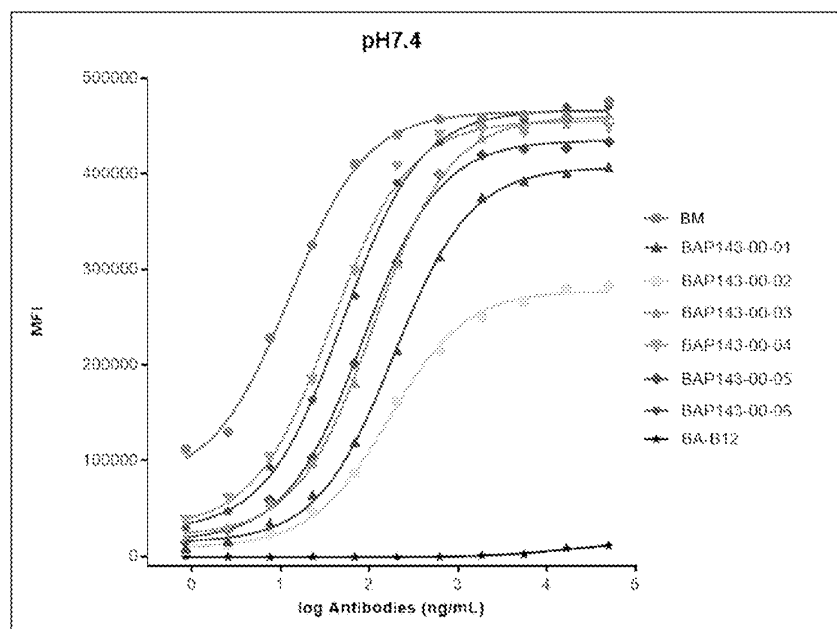


FIG. 14

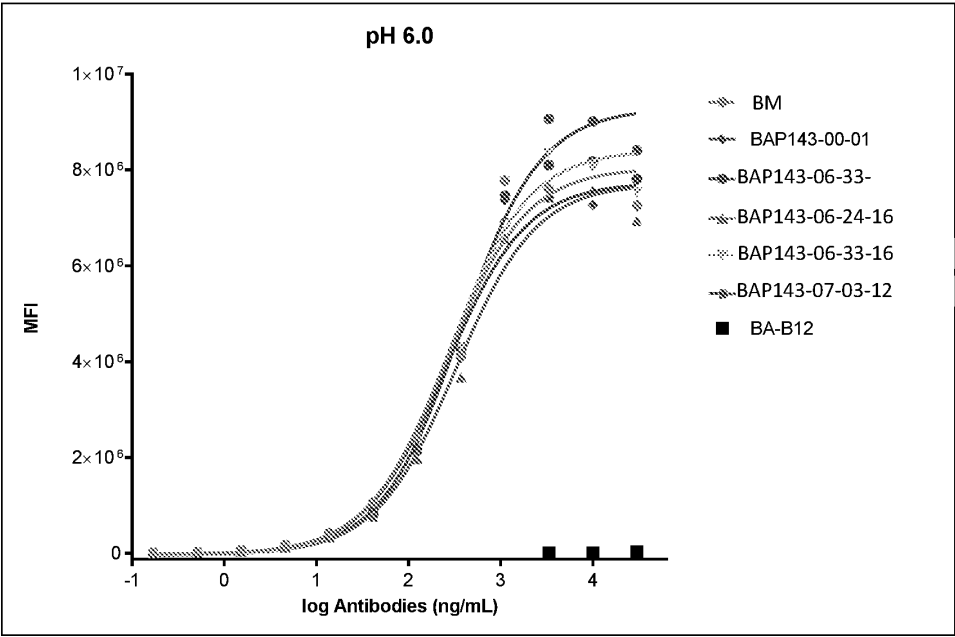


FIG. 15

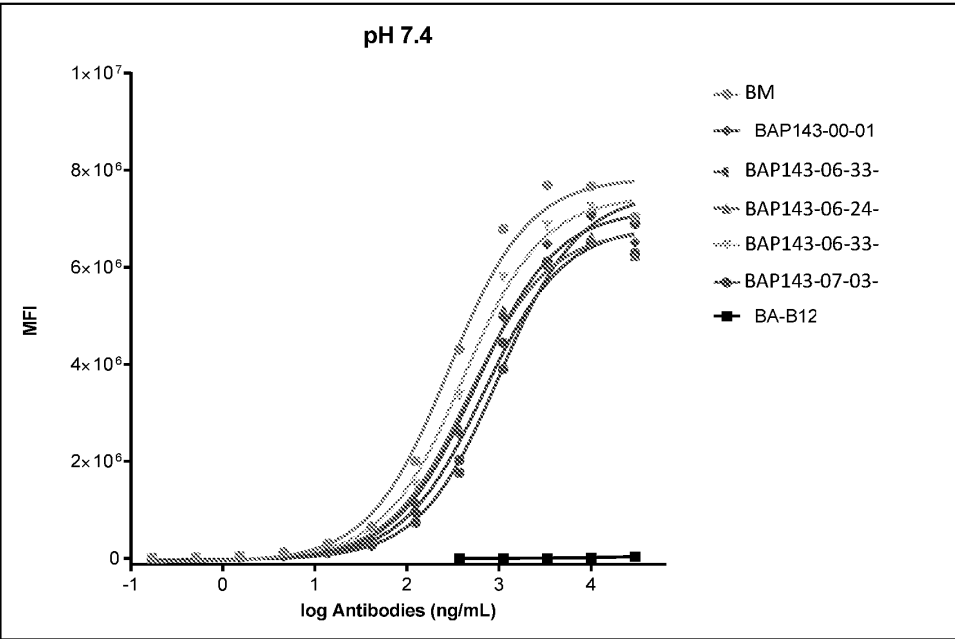


FIG. 16

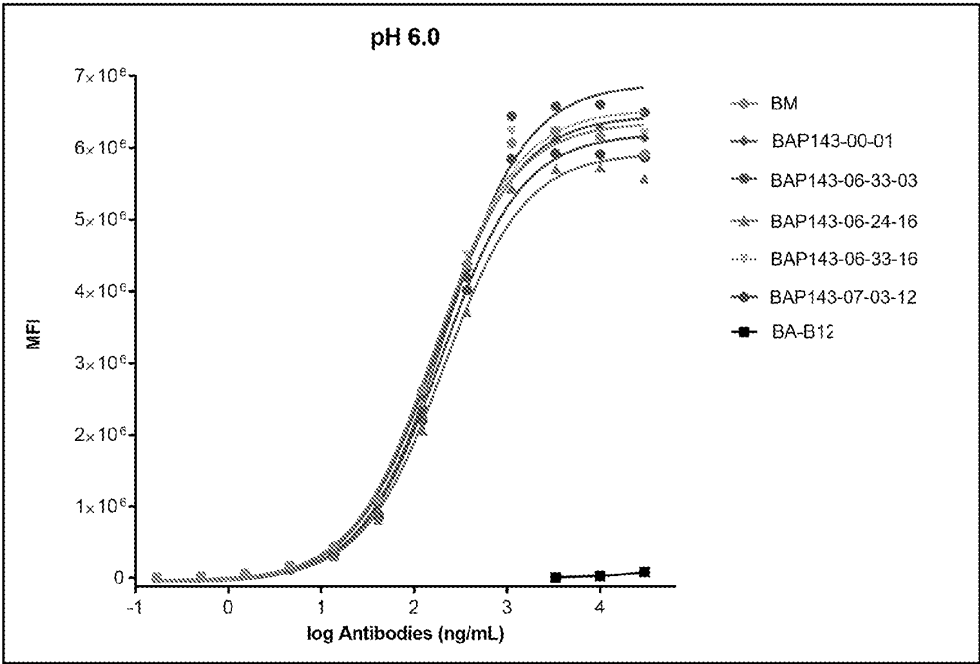


FIG. 17

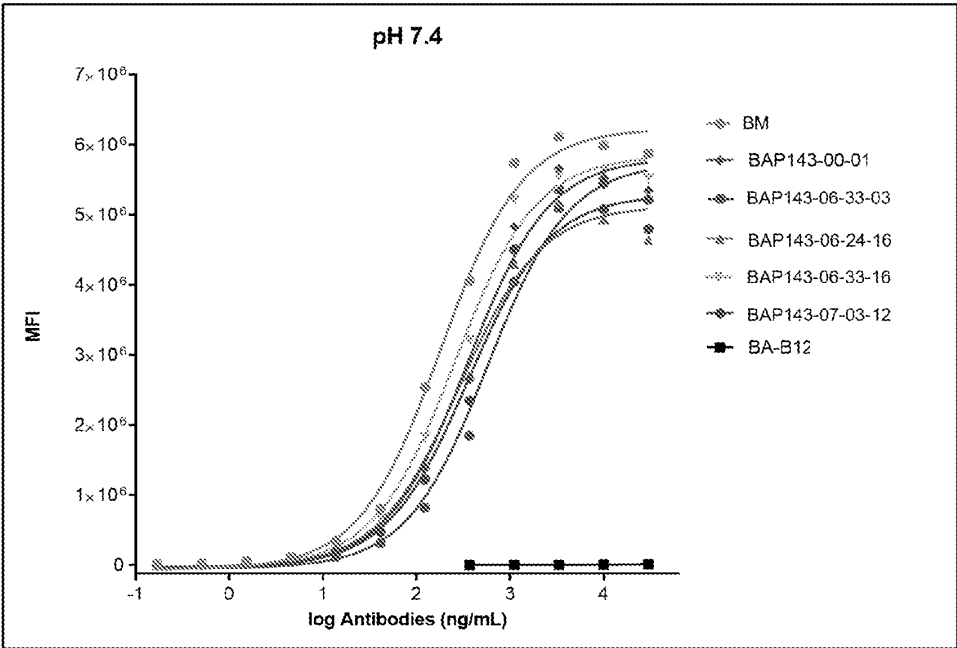


FIG. 18

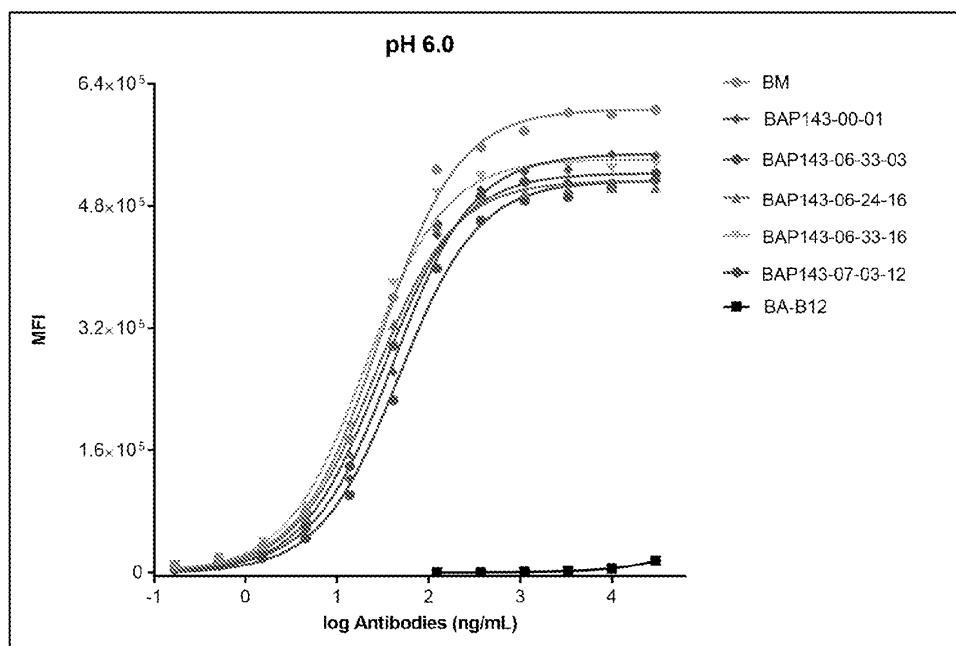


FIG. 19

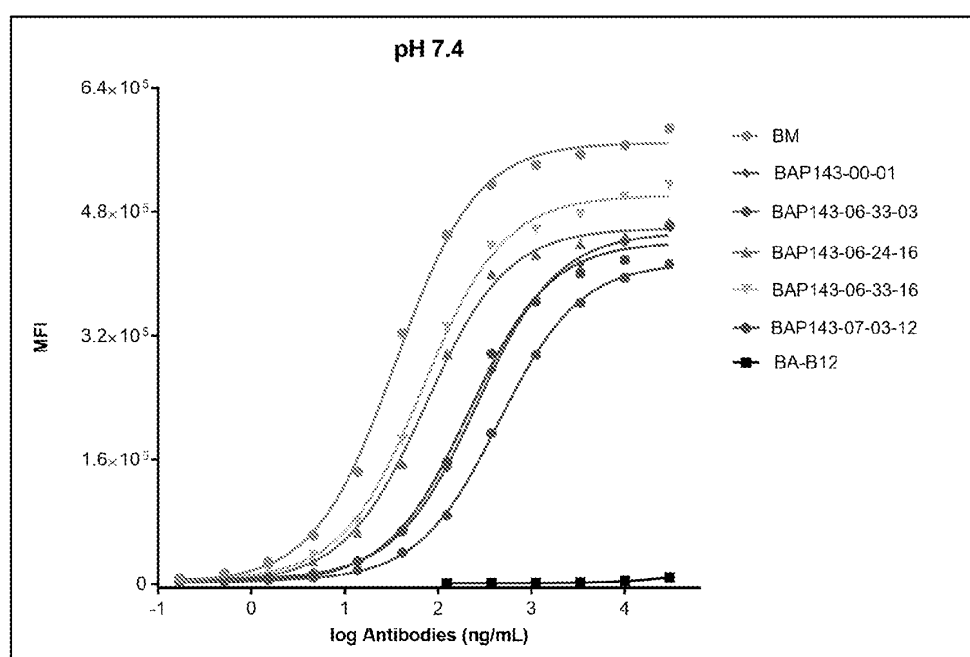


FIG. 20

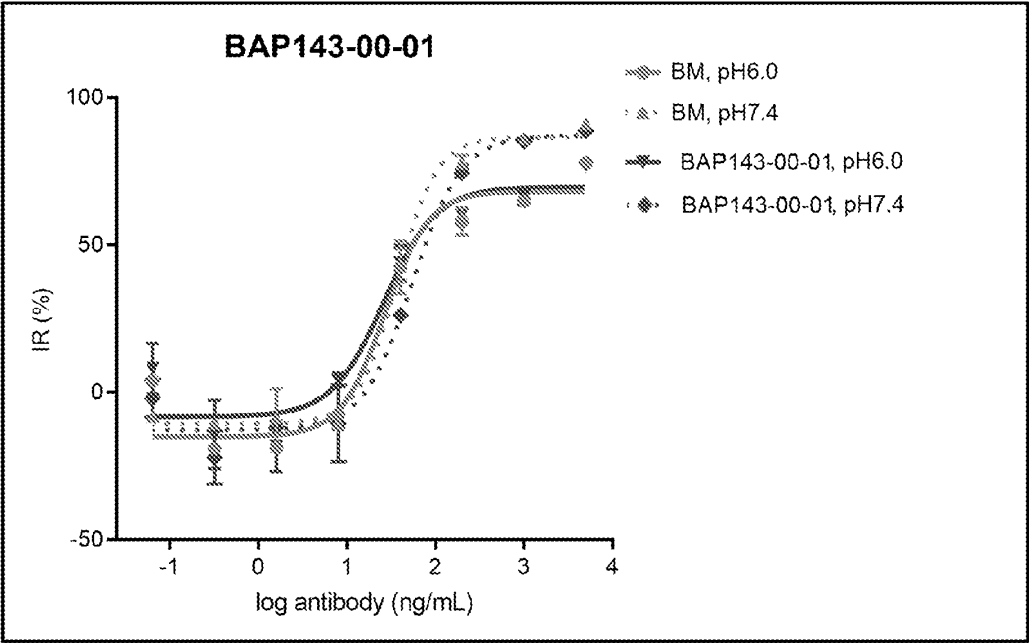


FIG. 21

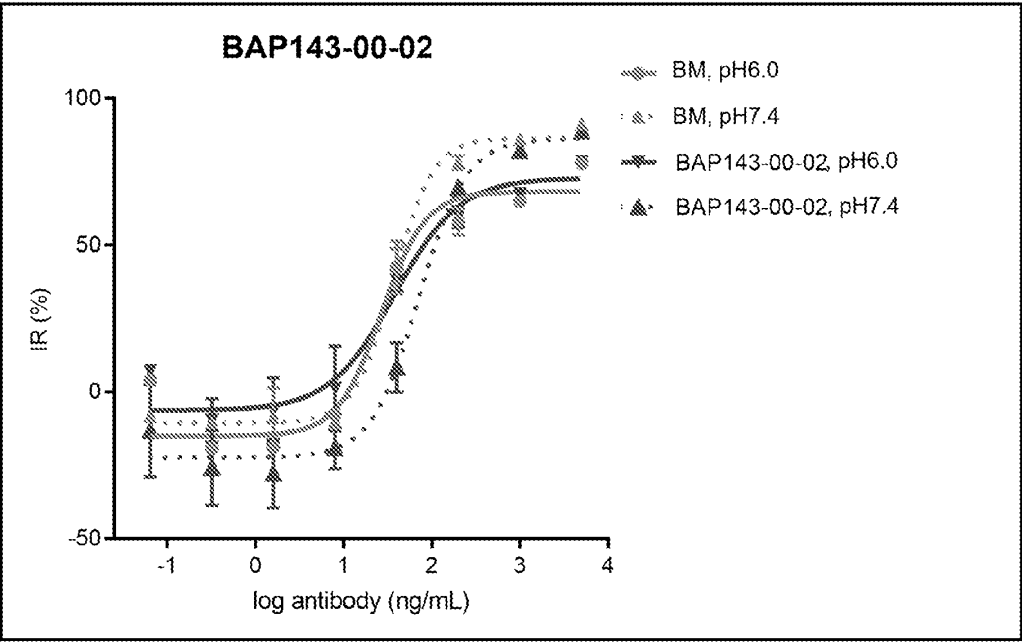


FIG. 22

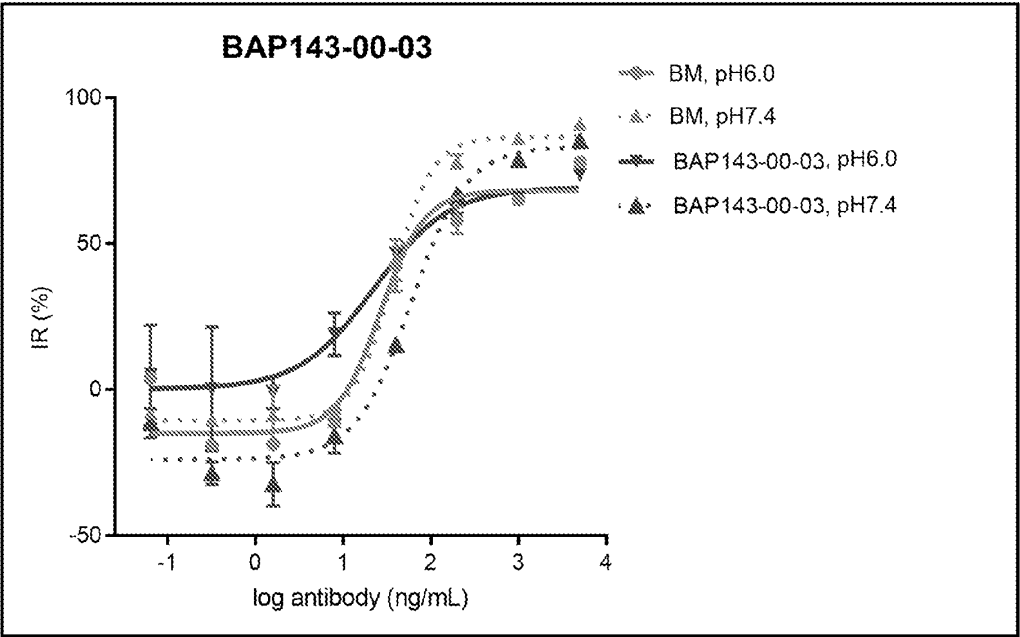


FIG. 23

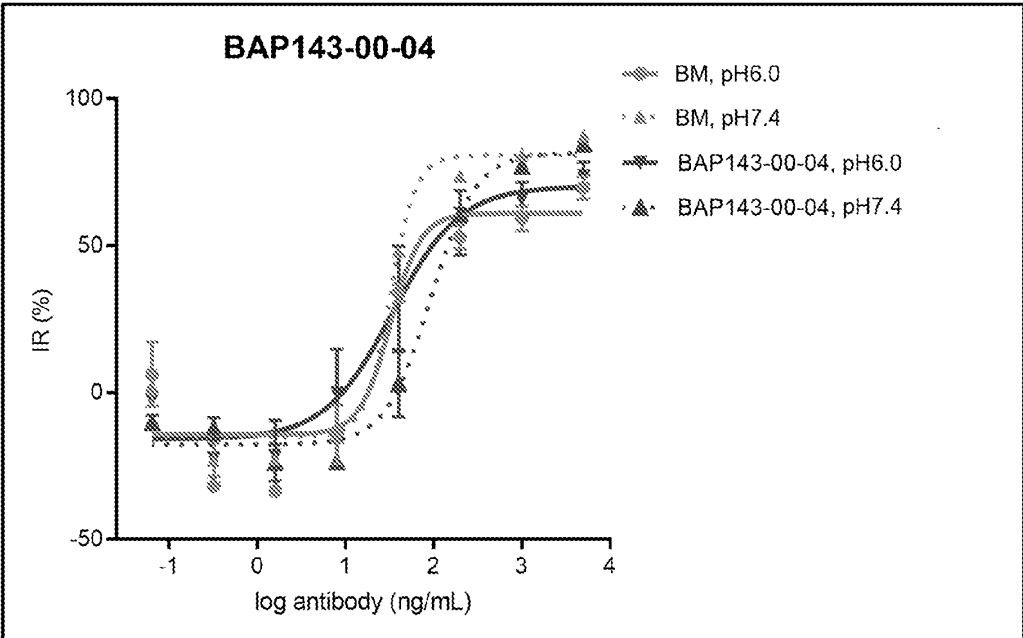


FIG. 24

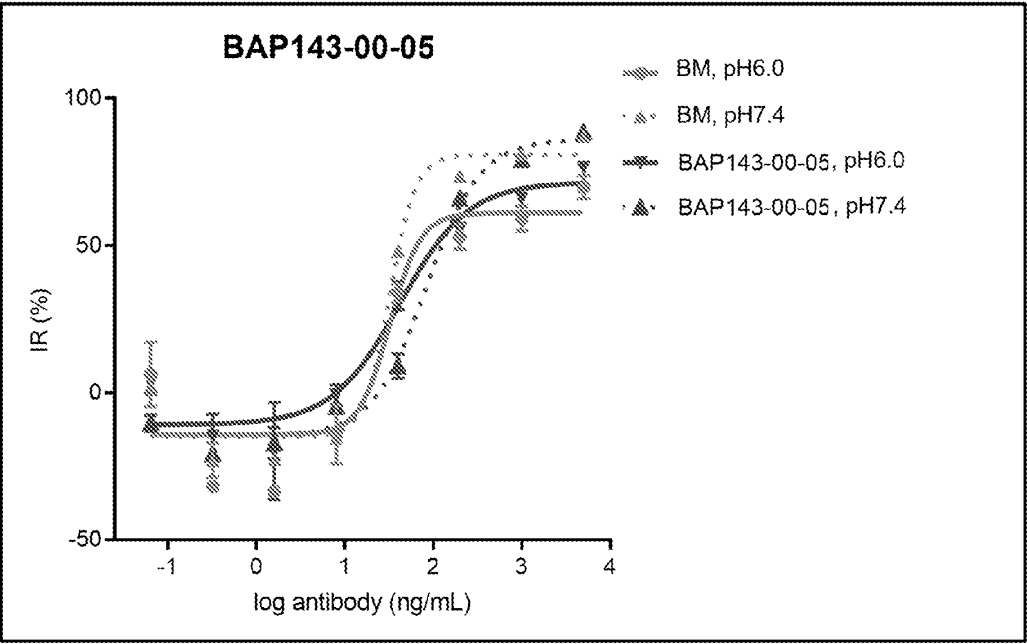


FIG. 25

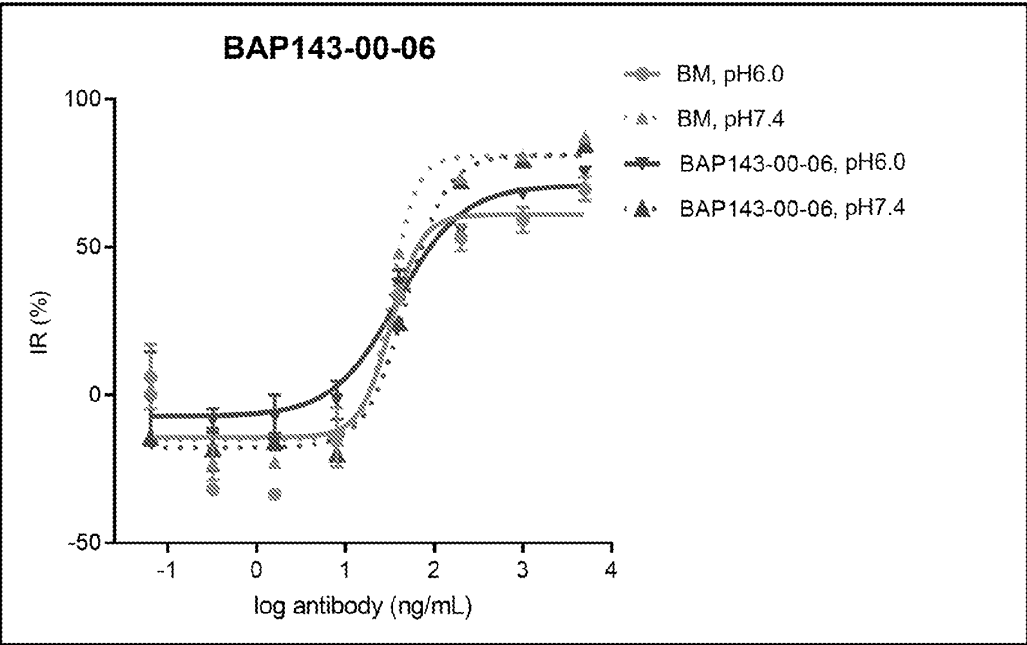


FIG. 26

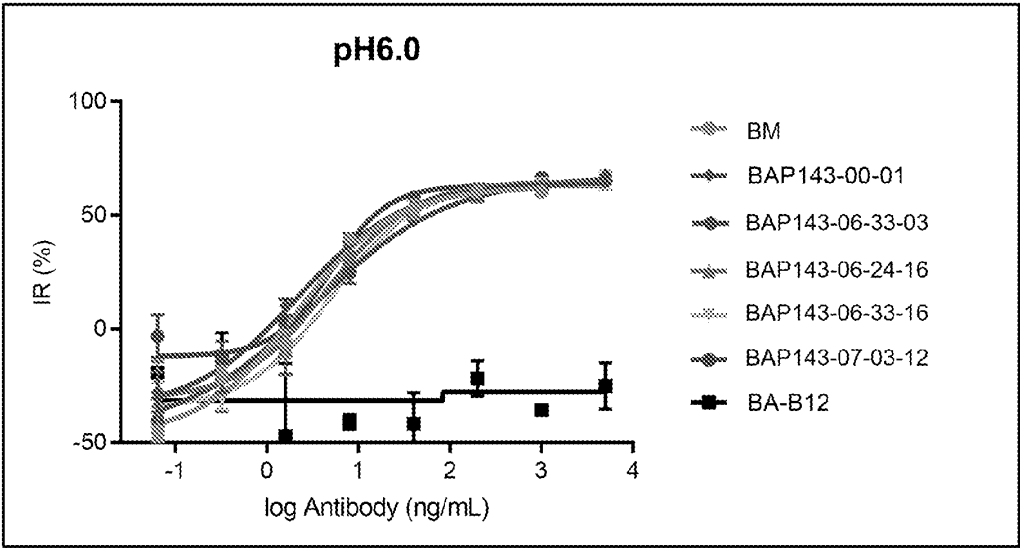


FIG. 27

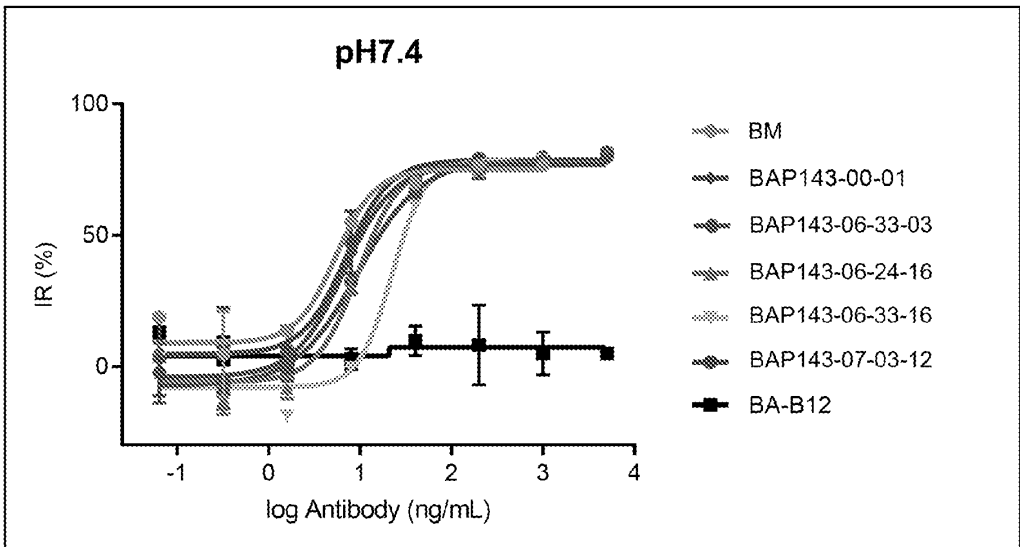


FIG. 28

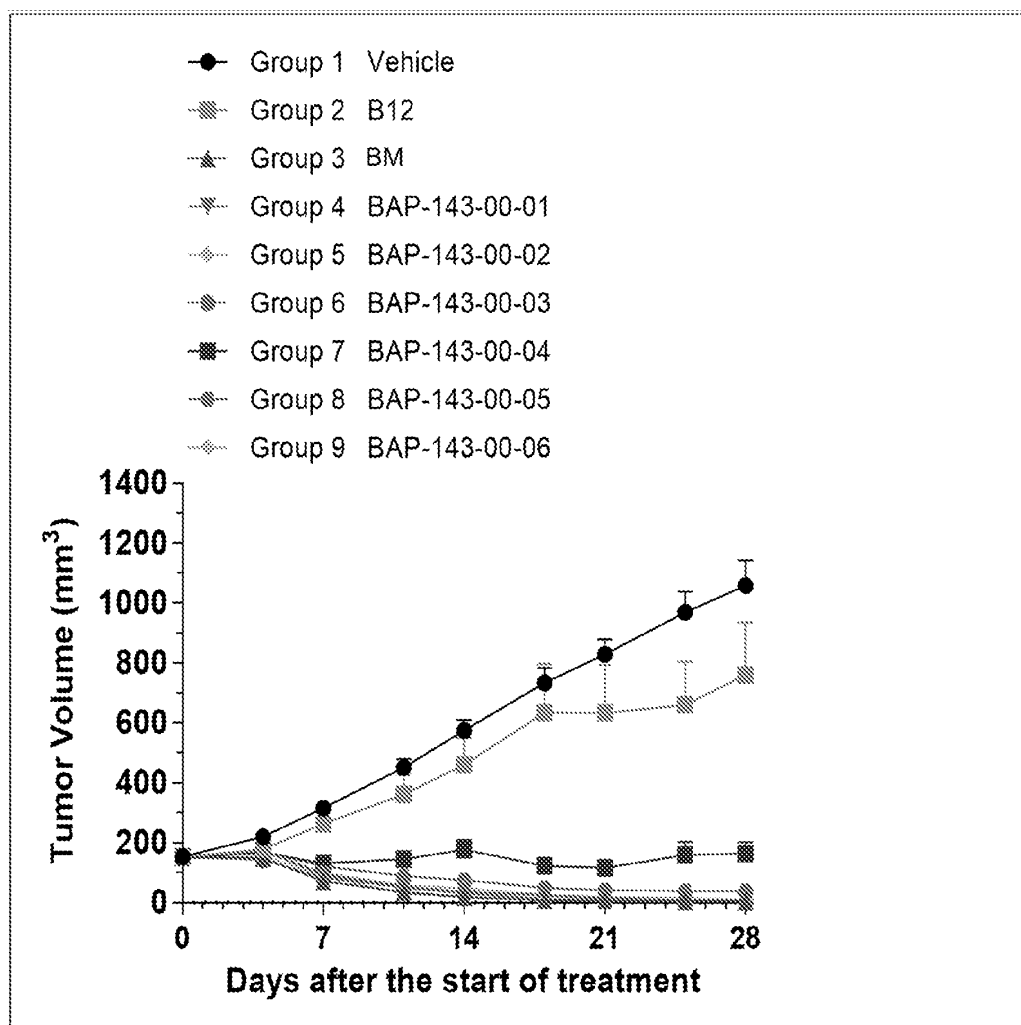


FIG. 29

FIG. 30

BAP143-VK-wildtype DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPTFGG
GTKVEIK... ..

BAP143-VH-wild type EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWRQA
PGKGLEWVS Y ISSSSSTIYY ADSVKGRFTI SRDPAKNSLS LQMNSLRDED TAVYYCARAY
YYGMDVWGQG TTVTVSS

BA-143-00-01-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWEAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPTFGG
GTKVEIK... ..

BA-143-00-01-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWRQA
PGKGLEWVS Y ISSSSSTIYY ADSVKGRFTI SRDPAKNSLS LQMNSLRDED TAVYYCARAY
YYGMDVWGQG TTVTVSS

BA-143-00-02-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPTFGG
GTKVEIK... ..

BA-143-00-02-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWRQA
PGKGLEWVS Y ISSSSSTIYY ADSVKGRFTI SRDPAKNSLS LQMNSLRDED TAVYYCARAY
YYGMDVWGQG TTVTVSS

BA-143-00-03-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPTFGG
GTKVEIK... ..

BA-143-00-03-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWRQA
PGKGLEWVS Y ISSSSSTIYY ADSVKGRFTI SRDPAKNSLS LQMNSLRDED TAVYYCARAY
YYGMDVWGQG TTVTVSS

BA-143-00-04-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPTFGG
GTKVEIK... ..

BA-143-00-04-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNDNWRQA
PGKGLEWVS Y ISSSSSTIYY ADSVKGRFTI SRDPAKNSLS LQMNSLRDED TAVYYCARAY
YYGMDVWGQG TTVTVSS

BA-143-00-05-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPTFGG
GTKVEIK... ..

BA-143-00-05-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWRQA
PGKGLEWVS Y ISSSSSTIYY ADSVKGRFTI SRDPAKNSLS LQMNSLRDED TAVYYCAEAY
YYGMDVWGQG TTVTVSS

Fig. 30 (continued)

BA-143-00-06-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPPTFGG
GTKVEIK... ..

BA-143-00-06-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWVRQA
PGKLEWVS Y ISSSSSTIYY ADSVKGRFTI SRDANKSLS LQMNSLRDED TAVYYCARAY
YVGDDVWGQG TTVTVSS

BA-143-06-24-16-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPPTFGG
GTKVEIK... ..

BA-143-06-24-16-VH EVQLVQSGAE VKKPGATVKI SCKVSGFTFS SYNMNWIRQS
PSRGLEWLG Y ISSSSSTIYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCARAY
YVGDDVWGQG TLTVTVSS

BA-143-06-33-0403-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSEFPPTFGG
GTKVEIK... ..

BA-143-06-33-0403-VH QVQLVQSGAE VKKPGASVKV SCKASGFTFS SYNMNWVRQA
RGQRLEWIG Y ISSSSSTIYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCARAY
YVGMDKWGQG TLTVTVSS

BA-143-06-33-16-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWEAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPPTFGG
GTKVEIK... ..

BA-143-06-33-16-VH EVQLVQSGAE VKKPGATVKI SCKVSGFTFS SYNMNWIRQS
PSRGLEWLG Y ISSSSSTIYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCARAY
YVGDDVWGQG TLTVTVSS

BA-143-06-96-09-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPPTFGG
GTKVEIK... ..

BA-143-06-96-09-VH EVQLVQSGAE VKKPGESLRI SCKGSGFTFS SYNMNWIRQS
PSRGLEWLG Y ISSSSSTIYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCARAY
YVGMDKWGQG TLTVTVSS

BAP143-07-03-12-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWEAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPPTFGG
GTKVEIK... ..

BAP143-07-03-12-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWVRQA
PGKLEWVS Y ISSSSSTIYY ADSVKGRFTI SRDANKSLS LQMNSLRDED TAVYYCARAY
YVGMDKWGQG TTVTVSS

Fig. 30 (continued)

BAP143-07-11-06-VK DIQMTQSPSS VSASVGDRVT ITCHASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPTFGG
GTKVEIK... ..

BAP143-07-11-06-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWVRQA
PGKGLEWVSF ISSSSSTIYY ADSVKGRFTI SRDIAKNSLS LQMNSLRDED TAVYYCARAY
YYGDDVWGQG TTVTVSS

Fig. 31

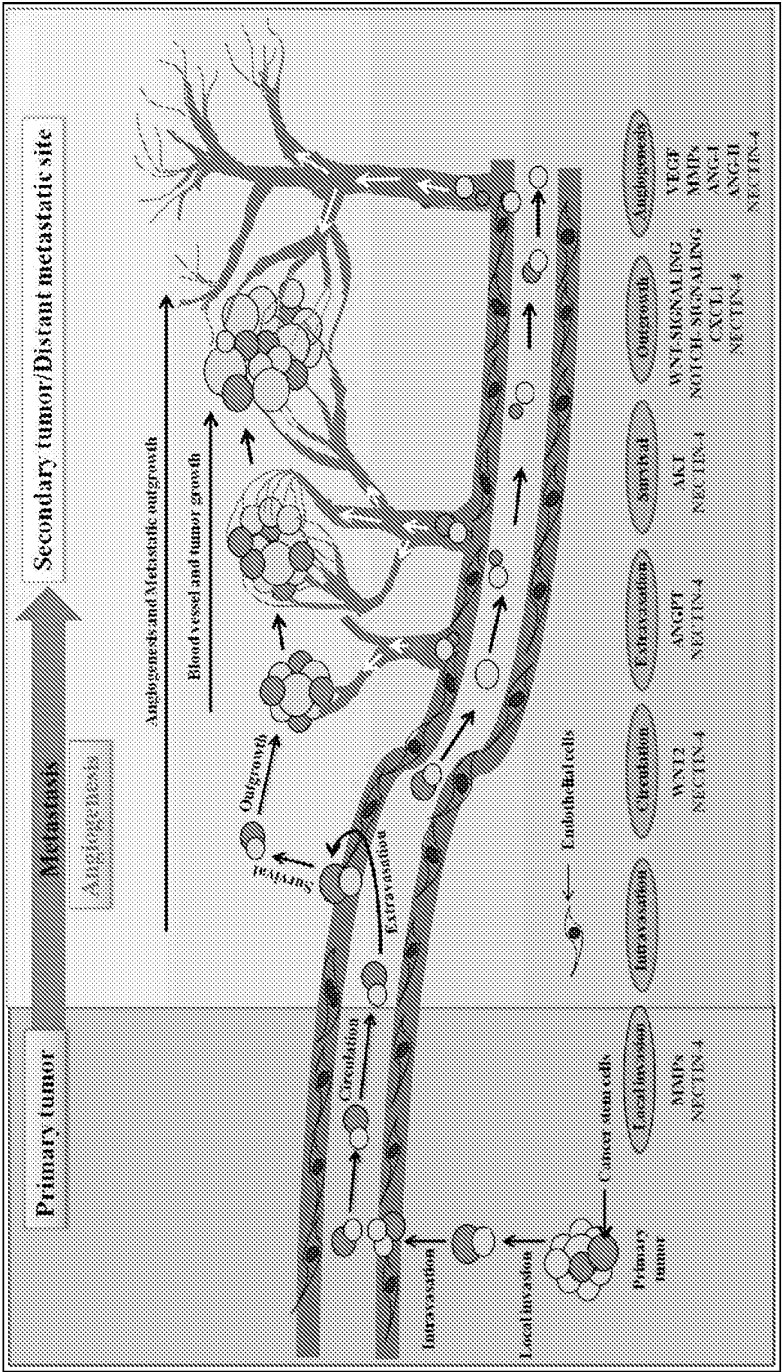


Fig. 32A

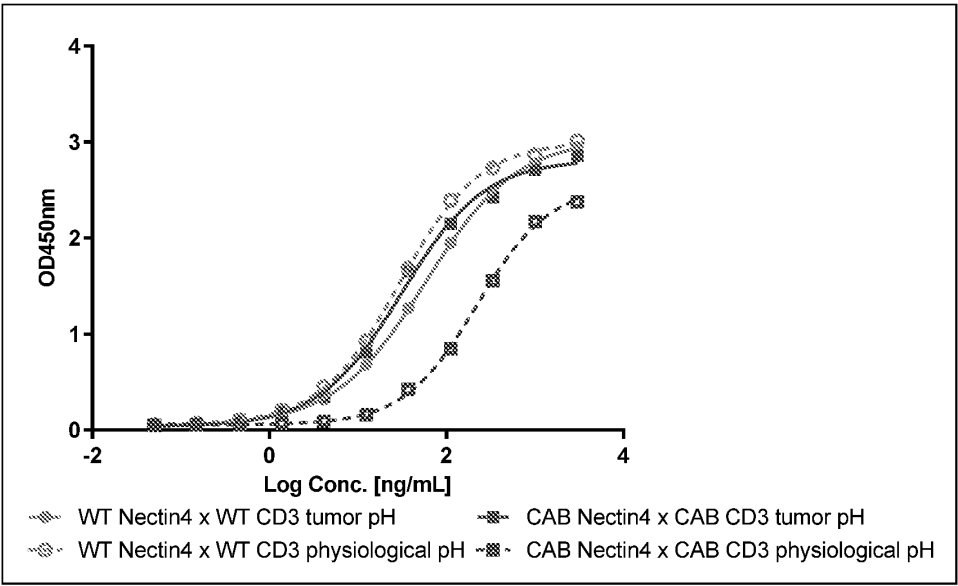


Fig. 32B

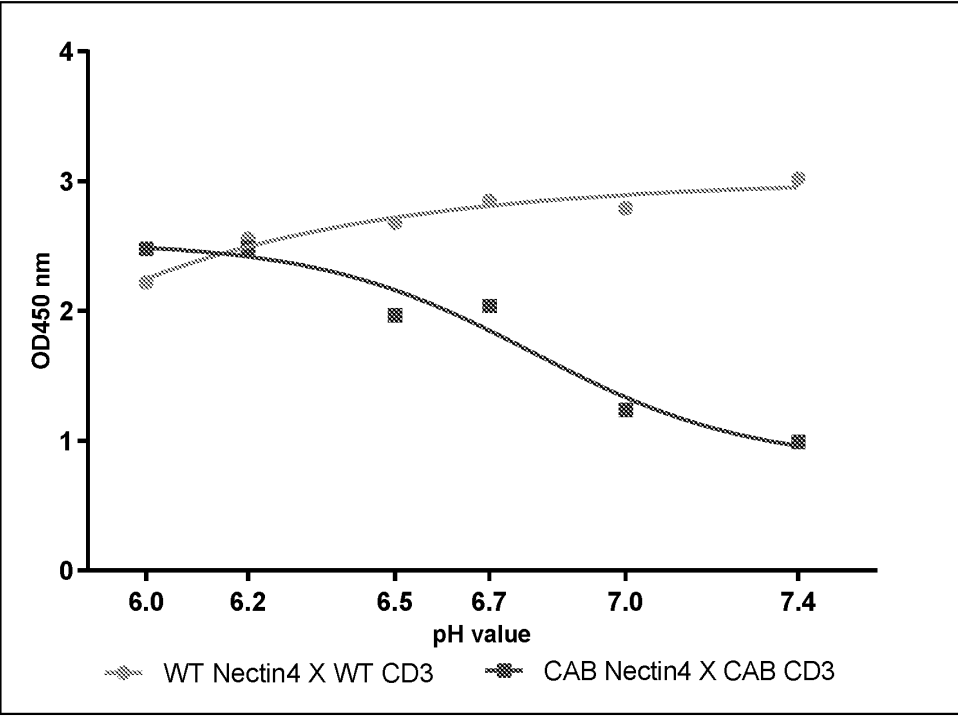


FIG. 32C

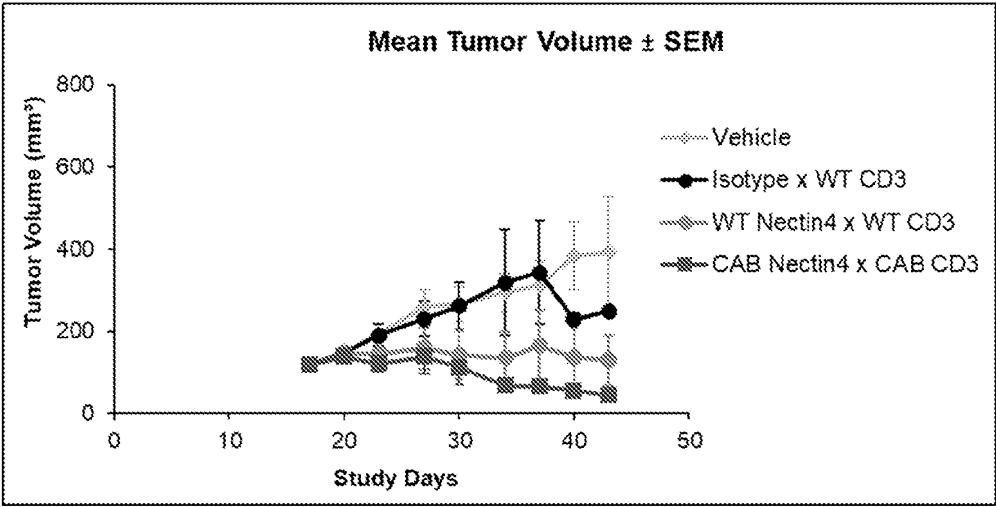


FIG. 33A

	10	20	30	40	50	60
BA-150-19-01-01-BF1-VH	EVQLVESGGGLVQPGGSLRLS	CAASGFTFSSYNMNWVRQAPGKLEWVS	YI	SSSSSTIYY		
BA-150-30-33-16-BF11-VH	Q	AEVKK	ATVKI	KV	I	S.SR.LG
BA-150-30-33-16-BF19-VH	Q	AEVKK	ATVKI	KV	I	S.SR.LG
BA-150-30-03-12-BF11-VH						
BA-150-30-03-12-BF19-VH						
	70	80	90	100	110	
BA-150-19-01-01-BF1-VH	ADSVKGRFTISRDN	AKNSLSLQMN	SLRDEDTAVYYCAR	AYYGMDVWGQGT	TVTVSS	
BA-150-30-33-16-BF11-VH		S	T.Y	A	D	L
BA-150-30-33-16-BF19-VH		S	T.Y	A	D	L
BA-150-30-03-12-BF11-VH					K	
BA-150-30-03-12-BF19-VH					K	

22 / 22

FIG. 33B

	10	20	30	40	50	60
BA-150-19-01-01-BF1-LC	DIQMTQSPSSVSASVGDRVTITCRASQGISGWLAWYQQKPKAPKFLIYA	AASTLQSGVPS				
BA-150-30-33-16-BF11-LC					E	
BA-150-30-33-16-BF19-LC					E	
BA-150-30-03-12-BF11-LC					E	
BA-150-30-03-12-BF19-LC					E	
	70	80	90	100	110	120
BA-150-19-01-01-BF1-LC	RFSGSGSGTDFTLTITSSLPEDFATYYCQ	QANSFPPTFGGGTKVEIKRTVAAPSVFIFPP				
BA-150-30-33-16-BF11-LC						
BA-150-30-33-16-BF19-LC						
BA-150-30-03-12-BF11-LC						
BA-150-30-03-12-BF19-LC						
	130	140	150	160	170	180
BA-150-19-01-01-BF1-LC	SDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQ	DSKDS	TYSLSS	TLT		
BA-150-30-33-16-BF11-LC						
BA-150-30-33-16-BF19-LC						
BA-150-30-03-12-BF11-LC						
BA-150-30-03-12-BF19-LC						
	190	200	210	220	230	240
BA-150-19-01-01-BF1-LC	LSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC	SRSGGGGEVQLVESGGGLVQPGGSLR				
BA-150-30-33-16-BF11-LC						
BA-150-30-33-16-BF19-LC						
BA-150-30-03-12-BF11-LC						
BA-150-30-03-12-BF19-LC						
	250	260	270	280	290	300
BA-150-19-01-01-BF1-LC	LSCAASGFTFNTYAMNWRQAPGKGLEWVARIRSKYNNYATYYADSVKDR	FTISR	DDSKN			
BA-150-30-33-16-BF11-LC						
BA-150-30-33-16-BF19-LC						
BA-150-30-03-12-BF11-LC						
BA-150-30-03-12-BF19-LC						
	310	320	330	340	350	360
BA-150-19-01-01-BF1-LC	SLYLQMN	SLKTEDTAVYYCVRHGNF	NSYVSWFAYWGQGLVTVSSGGSGGGSGGGSGG			
BA-150-30-33-16-BF11-LC			S		K	
BA-150-30-33-16-BF19-LC				P	K	Q
BA-150-30-03-12-BF11-LC			S		K	
BA-150-30-03-12-BF19-LC				P	K	Q
	370	380	390	400	410	420
BA-150-19-01-01-BF1-LC	QAVVTQEP	SLTVSPGGTVTLTCRSSTGAVTTSNYANWVQKPGQAPRGLIGGT	KNRAPWT			
BA-150-30-33-16-BF11-LC				D		
BA-150-30-33-16-BF19-LC				D		
BA-150-30-03-12-BF11-LC				D		
BA-150-30-03-12-BF19-LC				D		
	430	440	450	460	470	
BA-150-19-01-01-BF1-LC	PARFSGSL	LGGKAALTITGAQAEDEADYYCALWY	SNLWVFGGGTKLTVLSR			
BA-150-30-33-16-BF11-LC						
BA-150-30-33-16-BF19-LC						
BA-150-30-03-12-BF11-LC						
BA-150-30-03-12-BF19-LC						