

	10	20	30	40	
m9D5VH	EVKLVE	GGGLVQ	PGGSLK	LSCAAS	GFTFS
Mouse Model 1SEQ_H	EVKLVE	GGGLVQ	PGGSLK	LSCAAS	GFTFS
Mouse Model 1MQK_H	EVKLVE	GGGLVQ	PGGSLK	LSCAAS	GFTFS
Human Acceptor BAC02114	EVQLVE	GGGLVQ	PGGSLR	LSCAAS	GFTFS
Human Acceptor AAX82494	QVQLVE	GGGLVQ	PGGSLK	LSCAAS	GFTFS
Hu9D5VHv1	EVQLVE	GGGLVQ	PGGSLR	LSCAAS	GFTFS
Hu9D5VHv2	EVQLVE	GGGLVQ	PGGSLR	LSCAAS	GFTFS
Hu9D5VHv3	EVQLVE	GGGLVQ	PGGSLR	LSCAAS	GFTFS
Hu9D5VHv3b	EVQLVE	GGGLVQ	PGGSLR	LSCAAS	GFTFS
Hu9D5VHv4	EVQLVE	GGGLVQ	PGGSLR	LSCAAS	GFTFS
Hu9D5VHv4b	EVQLVE	GGGLVQ	PGGSLR	LSCAAS	GFTFS
Hu9D5VHv5	EVQLVE	GGGLVQ	PGGSLR	LSCAAS	GFTFS
m9D5VH	KRLELV	AEISNS	GGDTTY	YPDVK	GRFTFS
Mouse Model 1SEQ_H	KKLEWV	AYISK	GGSTYY	PDVK	GRFTISR
Mouse Model 1MQK_H	KRLEWV	ASIN	NGGRTYY	PDVK	GRFTISR
Human Acceptor BAC02114	KGLEWV	SVYTSS	GGSTIY	YADSV	KGRFTISR
Human Acceptor AAX82494	KRLEWV	ATISS	GGSTYY	PDVK	GRFTISR
Hu9D5VHv1	KGLELV	AEISNS	GGDTTY	YPDVK	GRFTFS
Hu9D5VHv2	KGLELV	AEISNS	GGDTTY	YPDVK	GRFTFS
Hu9D5VHv2b	KRLELV	AEISNS	GGDTTY	YPDVK	GRFTISR
Hu9D5VHv3	KGLEWV	SEISNS	GGDTTY	YPDVK	GRFTISR
Hu9D5VHv3b	KRLELV	AEISNS	GGDTTY	YPDVK	GRFTISR
Hu9D5VHv4	KGLEWV	SEISNS	GGDTTY	YPDVK	GRFTISR
Hu9D5VHv4b	KRLELV	AEISNS	GGDTTY	YPDVK	GRFTISR
Hu9D5VHv5	KRLELV	AEISNS	GGDTTY	YPDVK	GRFTISR

FIG. 1A.1

m9D5VH	90	100	110	120	
Mouse Model 1 SEQ H	SLKSEDTAMYYCARHYYYGGYGGWFFDVNGTGTTVTVSS				124 (SEQ ID NO.1)
Mouse Model 1 MQK _H	SLKSEDTALYYCAR-GAMEGNDFKYPMDRWNGQGTSTVTVSS				123 (SEQ ID NO.2)
Human Acceptor BAC02114	SLKSEDTAMYYCVRHEYY-----YAMDYNGQGTTVTVSS				118 (SEQ ID NO.62)
Human Acceptor AAX82494	SLRAEDTAVYYCARGGQGSRYYYYYGMDVNGQGTTVTVSS				124 (SEQ ID NO.3)
Hu9D5VHv1	SLKSEDTAMYYCARLYYGYRYF-----DYNGQGTMTVTVSS				120 (SEQ ID NO.4)
Hu9D5VHv2	SLKAEDTAVYYCARHYYYGGYGGWFFDVNGQGTTVTVSS				124 (SEQ ID NO.5)
Hu9D5VHv2b	LLRAEDTAVYYCARHYYYGGYGGWFFDVNGQGTTVTVSS				124 (SEQ ID NO.6)
Hu9D5VHv3	SLKSEDTAMYYCARHYYYGGYGGWFFDVNGQGTTLTVTVSS				124 (SEQ ID NO.7)
Hu9D5VHv3b	LLRAEDTAVYYCARHYYYGGYGGWFFDVNGQGTTVTVSS				124 (SEQ ID NO.8)
Hu9D5VHv4	SLKSEDTAMYYCARHYYYGGYGGWFFDVNGQGTTLTVTVSS				124 (SEQ ID NO.9)
Hu9D5VHv4b	LLRAEDTAVYYCARHYYYGGYGGWFFDVNGQGTTVTVSS				124 (SEQ ID NO.10)
Hu9D5VHv5	SLKSEDTAMYYCARHYYYGGYGGWFFDVNGQGTTLTVTVSS				124 (SEQ ID NO.11)
	LLRAEDTAVYYCARHYYYGGYGGWFFDVNGQGTTVTVSS				124 (SEQ ID NO.12)

FIG. 1A.2

	10	20	30	40
m9D5VL	DIVMTQAAPSVPTPGESV	ISCRSSKSLHNSGNTYLYW	40	
Mouse Model 1 MJU L	DIVMTQAAPSVPTPGESV	ISCRSSKSLHNSGNTYLYW	40	
Human Acceptor ABC66952	DIVMTQSPSLPVTGPAPAS	ISCRSNQSLLYSNGYNYLDW	40	
Hu9D5VLv1	DIVMTQSPSLPVTGPAPAS	ISCRSSKSLHNSGNTYLYW	40	
Hu9D5VLv2	DIVMTQSPSLPVTGPAPAS	ISCRSSKSLHNSGNTYLYW	40	
Hu9D5VLv3	DIVMTQSPSLPVTGPAPAS	ISCRSSKSLHNSGNTYLYW	40	
Hu9D5VLv4	DIVMTQSPSLPVTGPAPAS	ISCRSSKSLHNSGNTYLYW	40	
Hu9D5VLv5	DIVMTQSPSLPVTGPAPAS	ISCRSSKSLHNSGNTYLYW	40	
m9D5VL	FLQRPQSPQLLIYRVSNLAS	GVDPDRFSGSGGTAFTLRI	80	
Mouse Model 1 MJU L	FLQRPQSPQLLIYRVSNLAS	GVDPDRFSGSGGTAFTLRI	80	
Human Acceptor ABC66952	YLQKPGQSPQLLIYSGSNRAS	GVDPDRFSGSGGTDFTLKI	80	
Hu9D5VLv1	FLQKPGQSPQLLIYRVSNLAS	GVDPDRFSGSGGTDFTLKI	80	
Hu6C1VLv2	YLQKPGQSPQLLIYRVSNLAS	GVDPDRFSGSGGTDFTLKI	80	
Hu9D5VLv3	YLQKPGQSPQLLIYRVSNLAS	GVPSRFSGSGGTDFTLKI	80	
Hu9D5VLv4	FLQRPQSPQLLIYRVSNLAS	GVPSRFSGSGGTAFTLRI	80	
Hu9D5VLv5	FLQRPQSPQLLIYRVSNLAS	GVPSRFSGSGGTAFTLRI	80	
m9D5VL	SRVEAEDGVVYCMQHLEYPLTF	GAGTKLELK	112	(SEQ ID NO.16)
Mouse Model 1 MJU L	SRVEAEDGVVYCMQHLEYPLTF	GAGTKLELK	112	(SEQ ID NO.17)
Human Acceptor ABC66952	SRVEAEDGVVYCMQALQSPYTF	GQGTKLEIK	112	(SEQ ID NO.18)
Hu9D5VLv1	SRVEAEDGVVYCMQHLEYPLTF	GQGTKLEIK	112	(SEQ ID NO.19)
Hu6C1VLv2	SRVEAEDGVVYCMQHLEYPLTF	GQGTKLEIK	112	(SEQ ID NO.20)
Hu9D5VLv3	SRVEAEDGVVYCMQHLEYPLTF	GQGTKLEIK	112	(SEQ ID NO.21)
Hu9D5VLv4	SRVEAEDGVVYCMQHLEYPLTF	GQGTKLEIK	112	(SEQ ID NO.22)
Hu9D5VLv5	SRVEAEDGVVYCMQHLEYPLTF	GQGTKLEIK	112	(SEQ ID NO.23)

FIG. 1B

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	10	20	30	40	
m14G8VH	EVKL	ESGG	LVQPG	GSKL	SCAASGFTFSSYTMSWVRQTPE 42
Mouse Model 1MQK_H	EVKL	ESGG	LVQPG	GSKL	SCAASGFTFSSYTMSWVRQTPE 42
Human Acceptor AAD30410	QVQL	VQSGG	LVQPG	GSRL	SCAASGFTFSSYAMSWVRQTPE 42
Human Acceptor AAX82494	QVQL	ESGG	LVQPG	GSRL	SCAASGFTFSSYGMWVRQTPE 42
Hu14G8VHv1	EVKL	ESGG	LVQPG	GSKL	SCAASGFTFSSYTMSWVRQTPE 42
Hu14G8VHv2	EVQL	ESGG	LVQPG	GSKL	SCAASGFTFSSYTMSWVRQTPE 42
Hu14G8VHv3	EVQL	ESGG	LVQPG	GSKL	SCAASGFTFSSYTMSWVRQTPE 42
	50	60	70	80	
m14G8VH	KRL	ELVA	EINNSG	DTTY	YPDTPVKGRFTISRDNAKNTLYLQMS 84
Mouse Model 1MQK_H	KRL	EWVA	SINNGG	RTTY	YPDTPVKGRFTISRDNAKNTLYLQMS 84
Human Acceptor AAD30410	KRL	EWVA	AI	STDGS	FIYYADTPVKGRFTISGDNKNTLYLQMN 84
Human Acceptor AAX82494	KRL	EWVA	TI	SSG	SYTYYPDSVKGRTISRDNAKNTLYLQMS 84
Hu14G8VHv1	KRL	ELVA	EINNSG	DTTY	YPDTPVKGRFTISRDNAKNTLYLQMS 84
Hu14G8VHv2	KRL	ELVA	EINNSG	DTTY	YPDTPVKGRFTISRDNAKNTLYLQMS 84
Hu14G8VHv3	KRL	ELVA	EINNSG	DTTY	YPDTPVKGRFTISRDNAKNTLYLQMN 84
	90	100	110	120	
m14G8VH	SLK	SED	TAM	YCAR	HYGGYGGYGGWFFDVWGTTGTVTVSS 124 (SEQ ID NO.61)
Mouse Model 1MQK_H	SLK	SED	TAM	YCAR	HYGGYGGYGGWFFDVWGTTGTVTVSS 118 (SEQ ID NO.62)
Human Acceptor AAD30410	SLR	AED	TAV	YCAR	DRGIDATAQVGRFDPWGQGLVTVSS 124 (SEQ ID NO.63)
Human Acceptor AAX82494	SLK	SED	TAM	YCAR	LYGYRYF----DYWGQGTMTVTVSS 120 (SEQ ID NO.4)
Hu14G8VHv1	SLK	SED	TAM	YCAR	HYGGYGGYGGWFFDVWGTTGTVTVSS 124 (SEQ ID NO.64)
Hu14G8VHv2	SLK	SED	TAM	YCAR	HYGGYGGYGGWFFDVWGQGLVTVSS 124 (SEQ ID NO.65)
Hu14G8VHv3	SLR	AED	TAV	YCAR	HYGGYGGYGGWFFDVWGQGLVTVSS 124 (SEQ ID NO.66)

FIG. 2A

m14G8VL	10	20	30	40
Mouse Model 1MJU L	DIVMTQAAPSVPTPGESVSISCRSNKSLHNSNGNTYLYW	40		
Human Acceptor ABA71374	DIVMTQAAPSVPTPGESVSISCRSSKSLHNSNGNTYLYW	40		
Human Acceptor ABC66952	DIVMTQTPLSPLPVTGPESASISCRSSQSLRHYSGYTYIDW	40		
Hu14G8VLv1	DIVMTQSPLSPLPVTGPESASISCRSNQSLLYSNGNYLDW	40		
Hu14G8VLv2	DIVMTQSAAPSLPVTGPESVSISCRSNKSLHNSNGNTYLYW	40		
Hu14G8VLv3	DIVMTQSPLSPLPVTGPESASISCRSNKSLHNSNGNTYLYW	40		
	50	60	70	80
m14G8VL	FLQRPQSPQLLIYRVSNLASGVDPDRFSGSGSGTAFTLRI	80		
Mouse Model 1MJU L	FLQRPQSPQLLIYRMSNLASGVDPDRFSGSGSGTAFTLRI	80		
Human Acceptor ABA71374	YLQKPGQSPQVLIIYLGSNRASGVDPDRFSGSGSGTDFTLKI	80		
Human Acceptor ABC66952	YLQKPGQSPQLLIYSGSNRASGVDPDRFSGSGSGTDFTLKI	80		
Hu14G8VLv1	FLQKPGQSPQLLIYRVSNLASGVDPDRFSGSGSGTAFTLKI	80		
Hu14G8VLv2	FLQKPGQSPQLLIYRVSNLASGVDPDRFSGSGSGTDFTLKI	80		
Hu14G8VLv3	FLQKPGQSPQLLIYRVSNLASGVPSRFRSGSGSGTDFTLKI	80		
	90	100	110	
m14G8VL	SRVEAEDVGVIYCMQHLEYPLTFGAGTKLEIKR	113	(SEQ ID NO.70)	
Mouse Model 1MJU L	SRVEAEDVGVIYCMQHLEYPLTFGAGTKLEIKR	113	(SEQ ID NO.71)	
Human Acceptor ABA71374	SRVEAEDVGVIYCMQALQTVCSFGQGTKLEIKR	113	(SEQ ID NO.72)	
Human Acceptor ABC66952	SRVEAEDVGVIYCMQALQSPYTFGQGTKLEIKR	113	(SEQ ID NO.73)	
Hu14G8VLv1	SRVEAEDVGVIYCMQHLEYPLTFGQGTKLEIKR	113	(SEQ ID NO.74)	
Hu14G8VLv2	SRVEAEDVGVIYCMQHLEYPLTFGQGTKLEIKR	113	(SEQ ID NO.75)	
Hu14G8VLv3	SRVEAEDVGVIYCMQHLEYPLTFGQGTKLEIKR	113	(SEQ ID NO.76)	

FIG. 2B

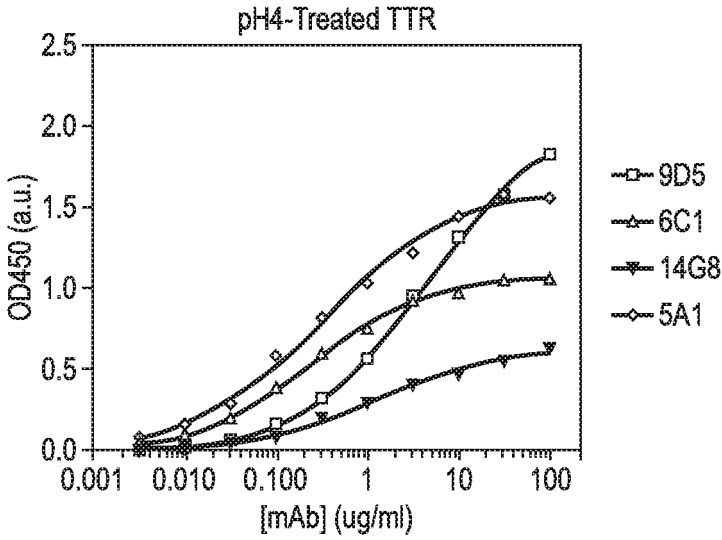


FIG. 3A

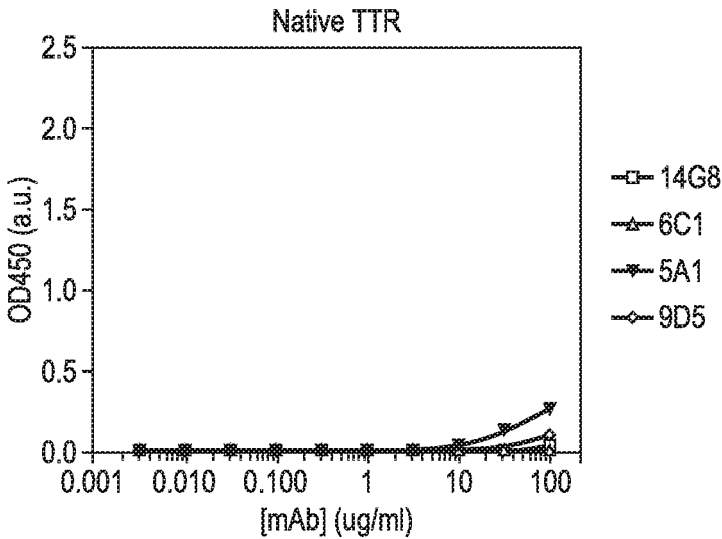


FIG. 3B

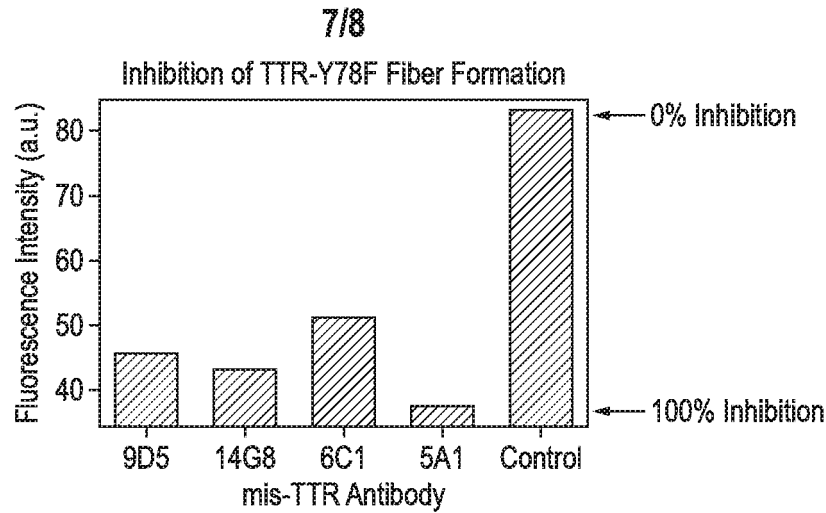


FIG. 4A

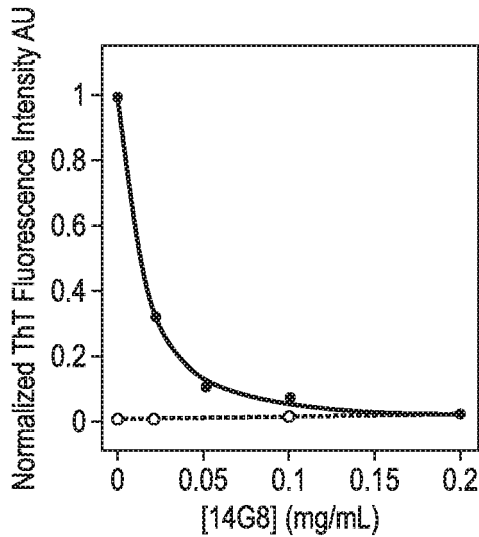


FIG. 4B

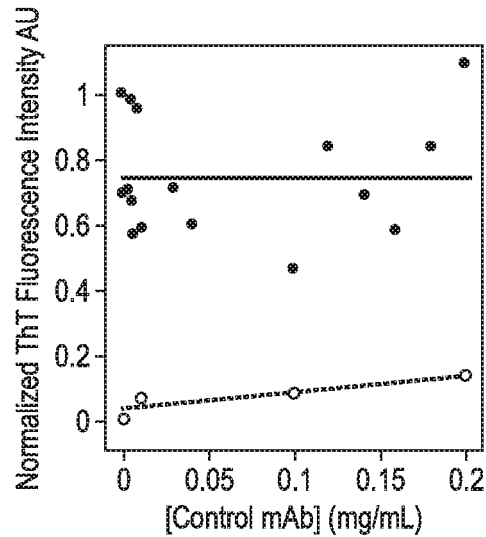


FIG. 4C

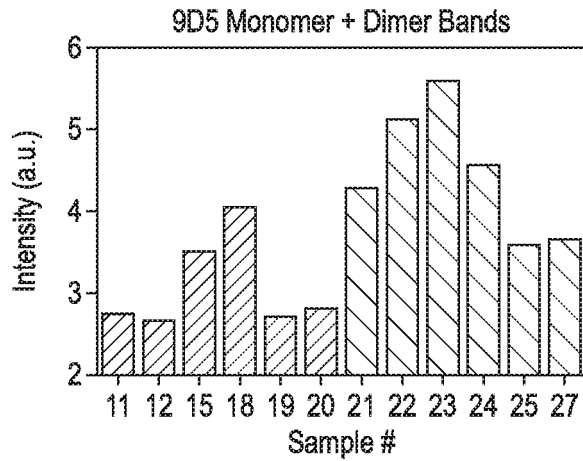


FIG. 5A

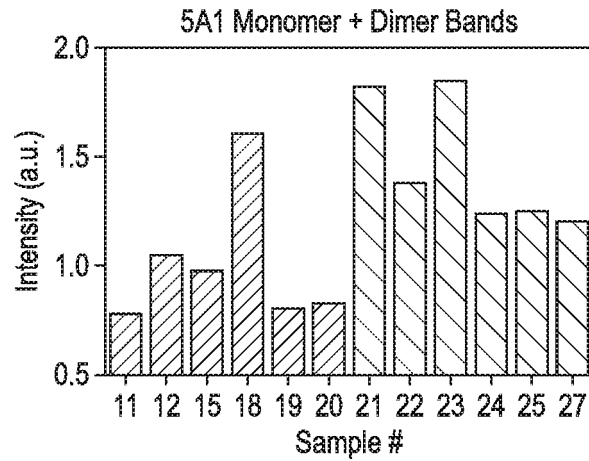
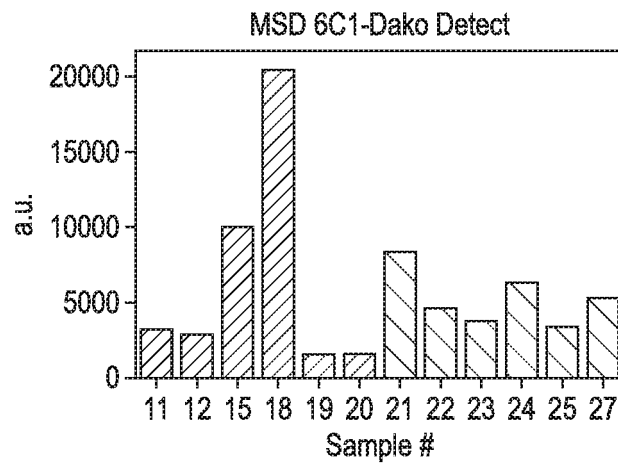
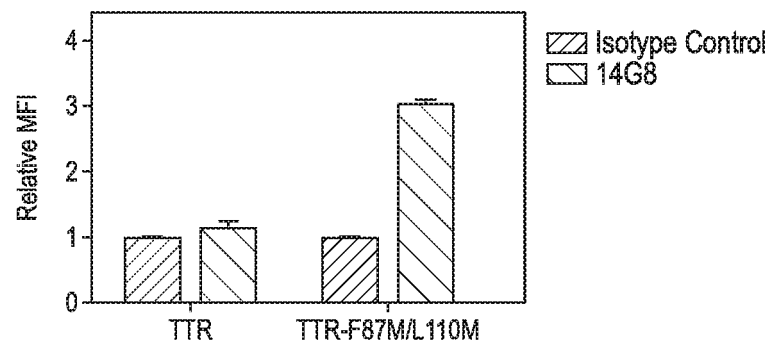
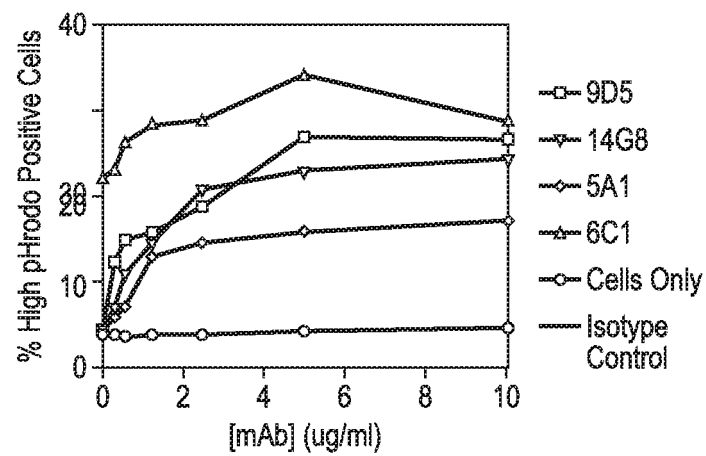


FIG. 5B

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**FIG. 6****FIG. 7A****FIG. 7B**