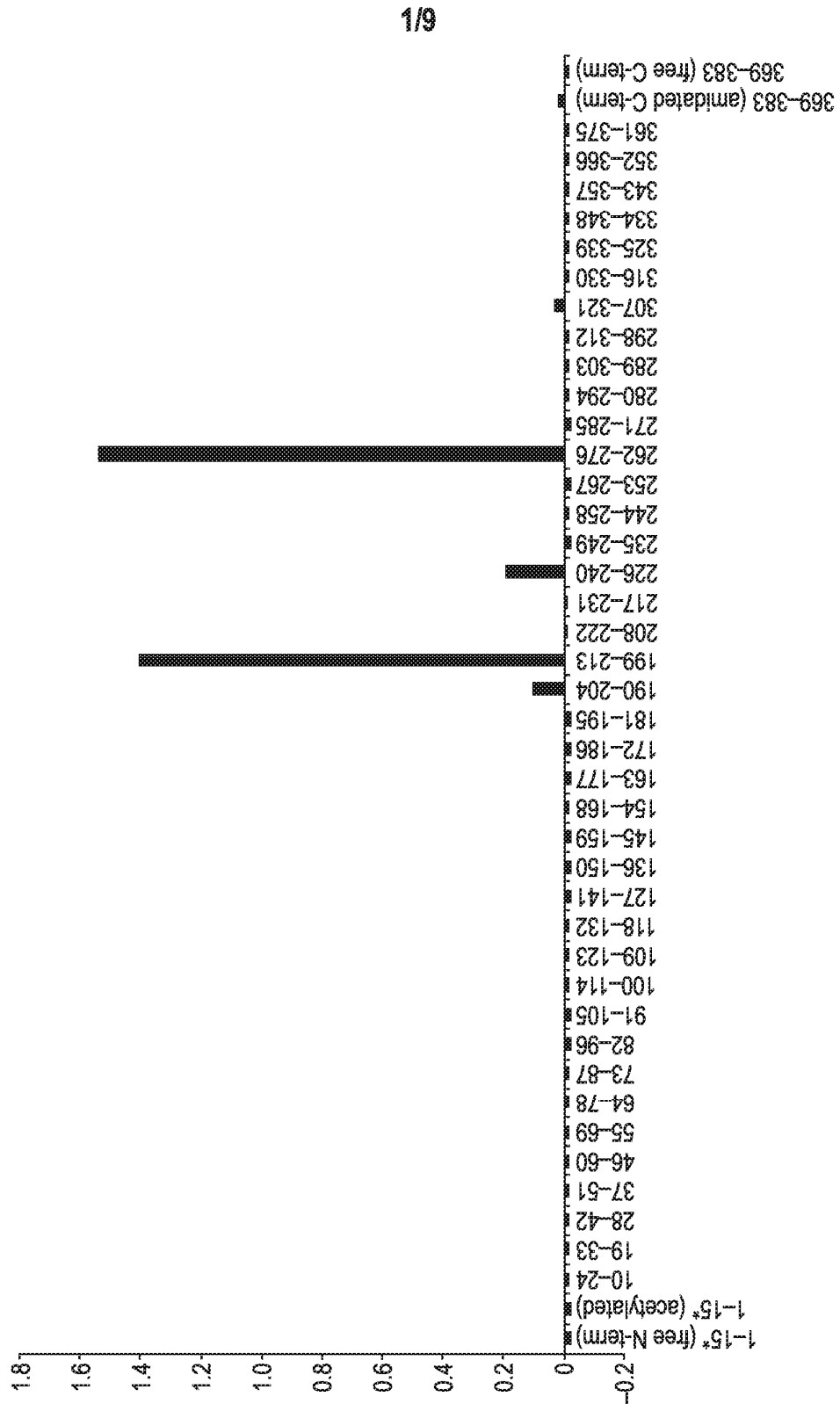
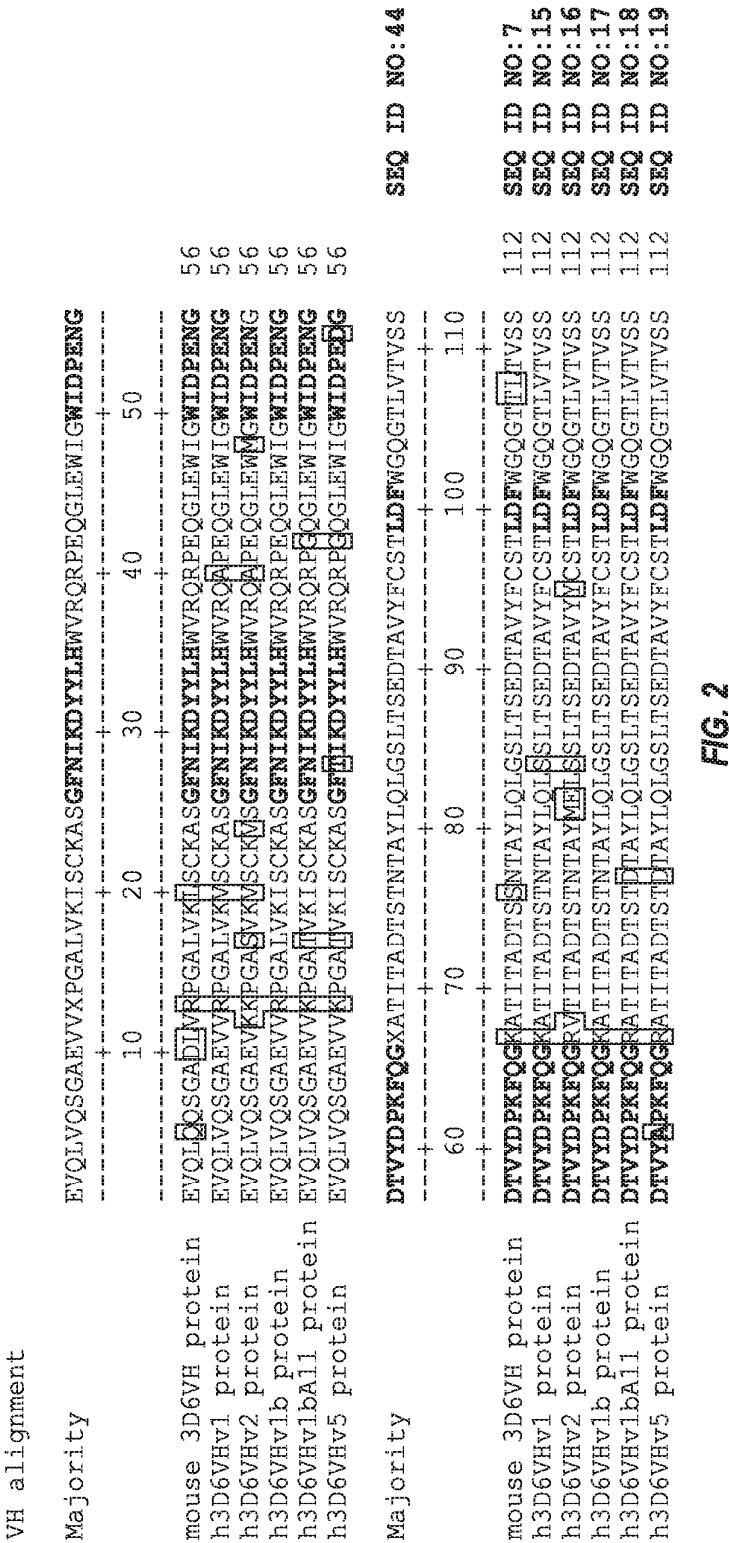






VH Alignment

Majority	10	20	30	40	50	
	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					
h3D6VHv1 protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv1b protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv1bA11 protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv1bA11B6G2 protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv1bA11B6H3 protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv1c protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv1d protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv1e protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv1f protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv2 protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv3 protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv3b protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv3c protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv4 protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv4b protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv4c protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56
h3D6VHv5 protein	EVQLVQSGAEVVKPGALVKISCKASGFNIKDYYLHWVRQPGQGIEWIGWIDPENG					56

FIG. 4A

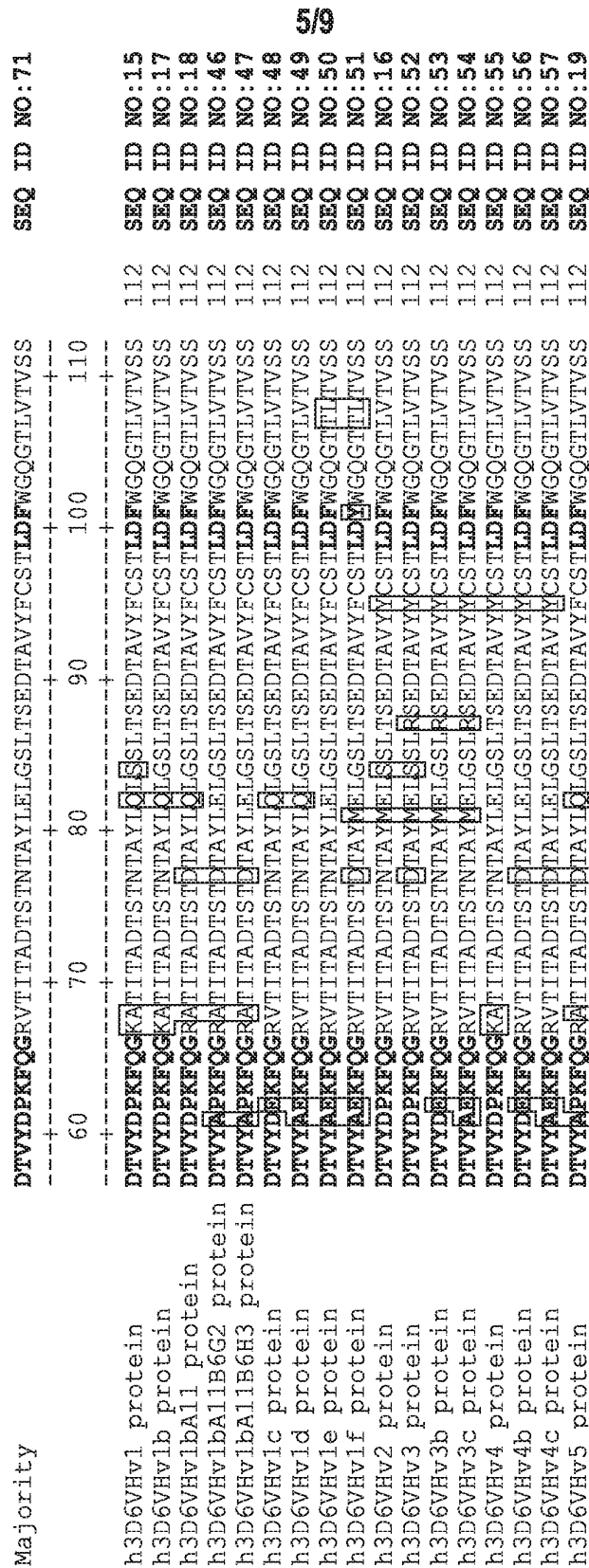
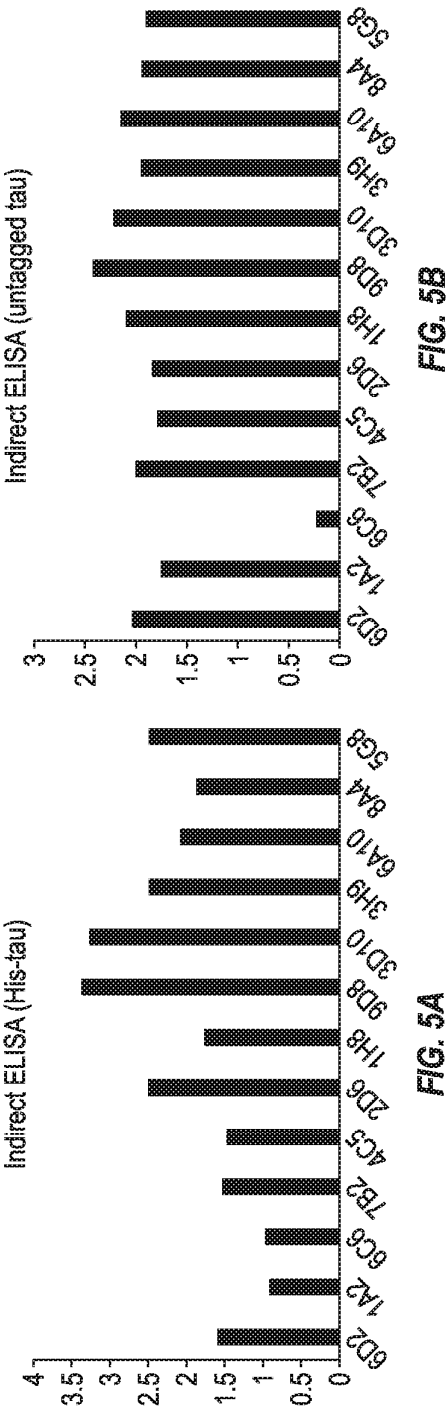
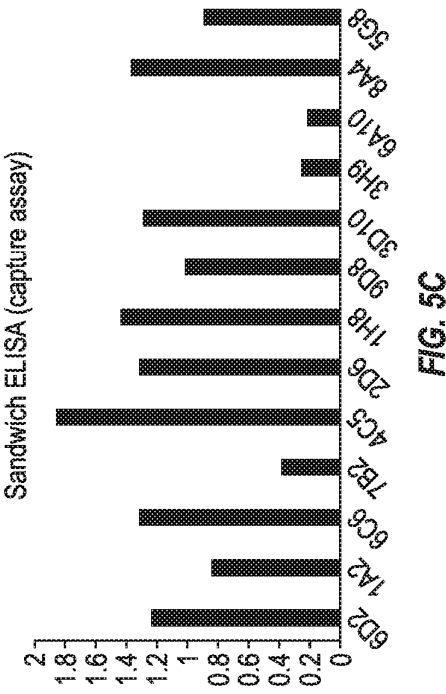
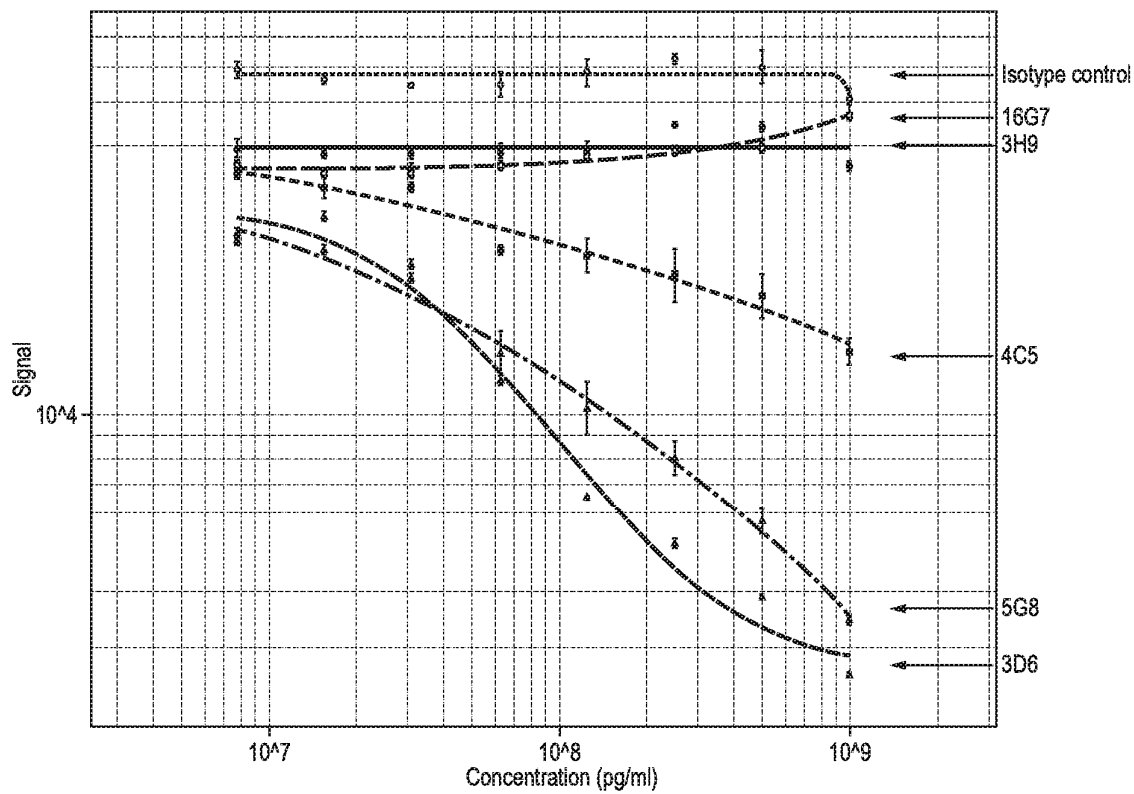


FIG. 4B



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Name	k_a ($M^{-1}s^{-1}$)	k_d (s^{-1})	K_D (nM)
3D6	2.58×10^6	1.19×10^{-3}	0.46
1H8	5.07×10^5	5.61×10^{-3}	11.1
3H9	4.71×10^5	1.41×10^{-3}	3.0
5G8	3.75×10^5	2.54×10^{-3}	6.78
6D2	3.83×10^5	3.18×10^{-3}	8.29
7G6	5.76×10^5	3.32×10^{-3}	5.77
8A4	5.99×10^5	2.27×10^{-3}	3.8

FIG. 6**FIG. 7**

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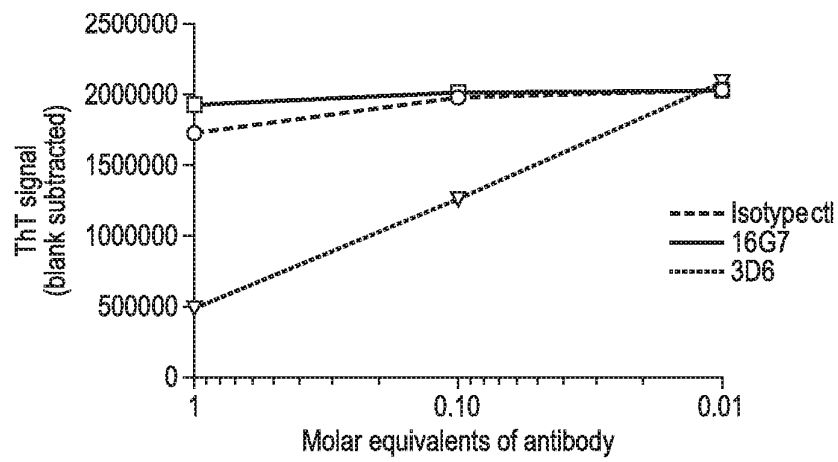


FIG. 8

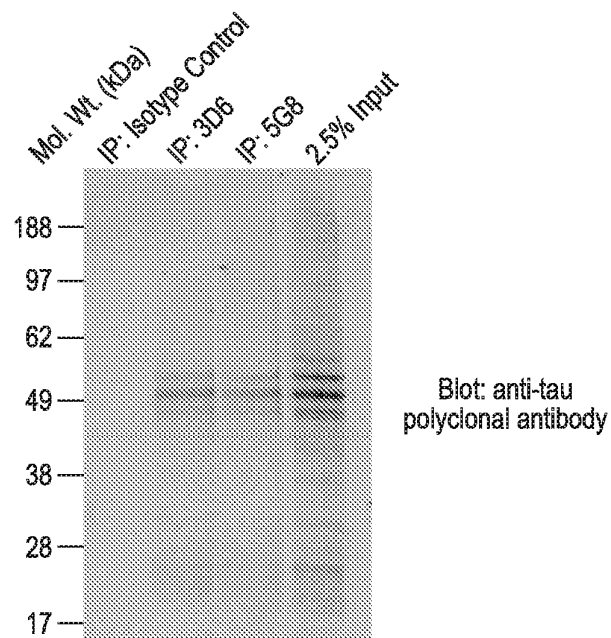


FIG. 9

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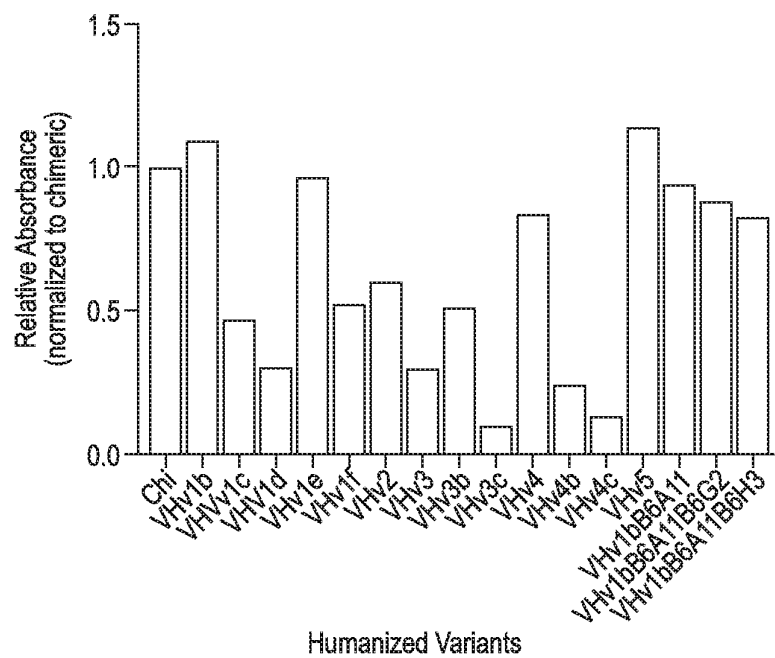


FIG. 10A

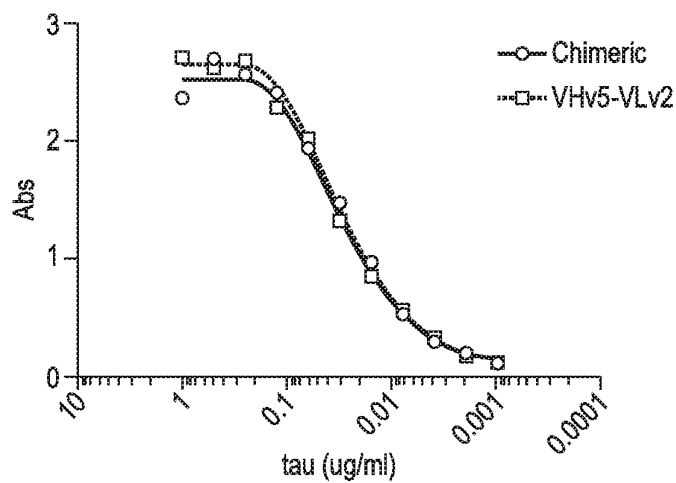


FIG. 10B

Name	$k_a (M^{-1}s^{-1})$	$k_d (s^{-1})$	$k_D (nM)$
h3D6-VhV5VLv2	9.03×10^6	9.14×10^{-4}	0.10

FIG. 10C