

Polyclonal Abs from Rabbits: Immunized with Whole Molecule

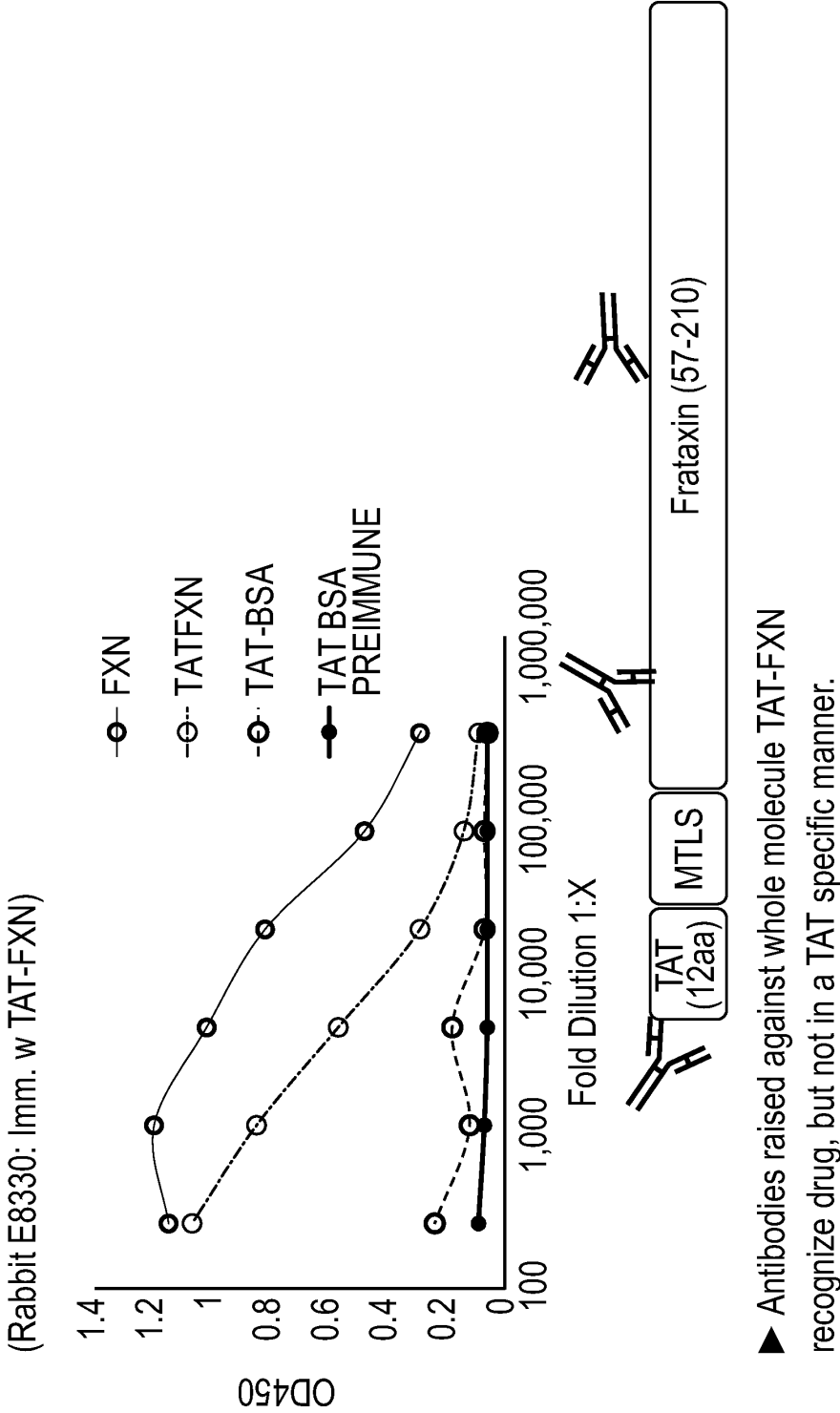
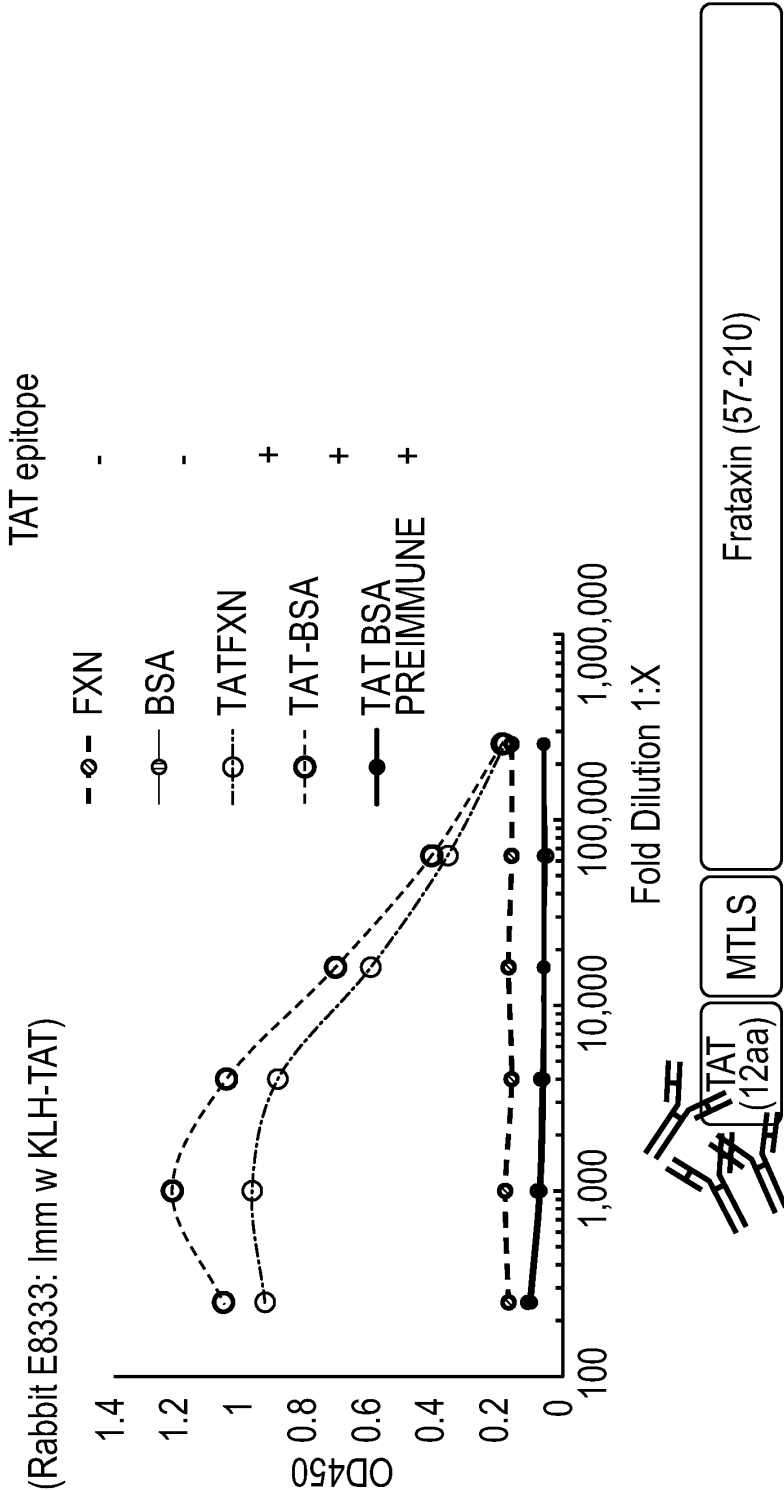


FIG. 1

Polyclonal Abs from Rabbits: Immunized with KLH-TAT conjugate



Polyclonal antibodies raised against KLH-TAT do not recognize Mature Frataxin, but do recognize BSA-TAT, showing specificity to the TAT epitope

FIG. 2

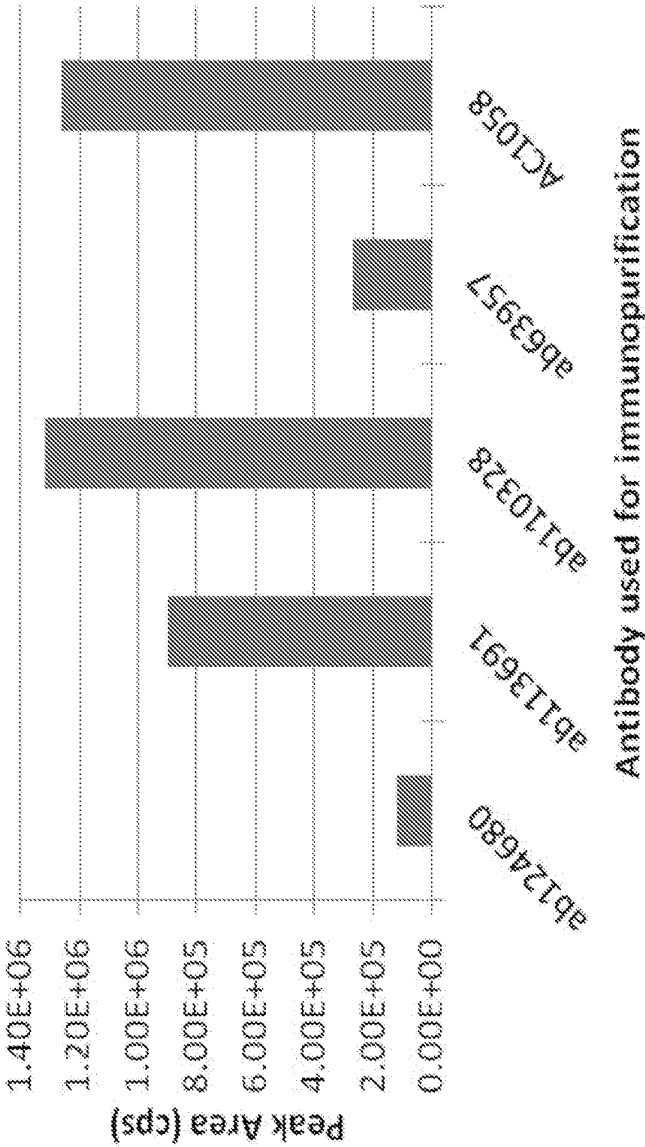


Fig. 3

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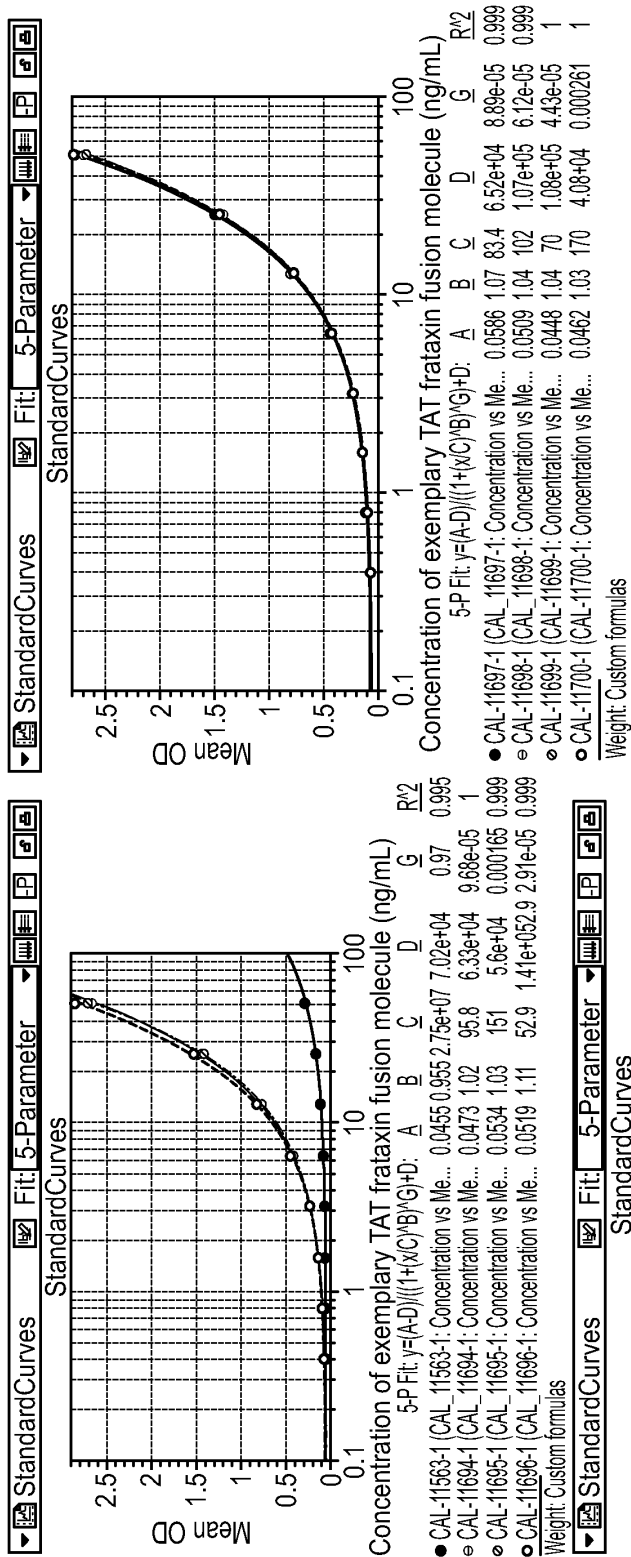
Exemplary TAT frataxin fusion molecule PK Assay in Human Plasma

	11563-1 (6.3)	11694-1 (10-1)	11695-1 (10-4)	11696-1 (10-5)	11697-1 (10-9)	11698-1 (10-12)	11699-1 (12-1)	11700-1 (12-3)	11701-1 (12-8)	11702-1 (12-10)	Anti-TAT pAb											
Plasma Conc. (ng/mL)	Mean S/N OD	Mean S/N OD	Mean S/N OD	Mean S/N OD	Mean S/N OD	Mean S/N OD	Mean S/N OD	Mean S/N OD	Mean S/N OD	Mean S/N OD	Mean S/N OD											
51.2	0.281	5.7	2.656	57.7	2.703	48.3	2.859	60.8	2.772	59.0	2.699	60.0	2.668	56.8	2.778	64.6	2.674	56.9	2.795	57.0	3.101	63.3
25.6	0.158	3.2	1.440	31.3	1.410	25.2	1.529	32.5	1.489	31.7	1.403	31.2	1.442	30.7	1.447	33.7	1.450	30.9	1.511	30.8	1.830	37.3
12.8	0.109	2.2	0.758	17.1	0.757	13.5	0.819	17.4	0.781	16.6	0.778	17.3	0.795	16.9	0.767	17.8	0.750	16.0	0.818	16.7	1.085	22.1
6.40	0.081	1.7	0.430	9.3	0.411	7.3	0.447	9.5	0.437	9.3	0.417	9.3	0.433	9.2	0.416	9.7	0.409	8.7	0.447	9.1	0.631	12.9
3.20	0.061	1.2	0.228	5.0	0.229	4.1	0.230	4.9	0.229	4.9	0.230	5.1	0.229	4.9	0.220	5.1	0.225	4.8	0.242	4.9	0.322	6.6
1.60	0.053	1.1	0.140	3.0	0.140	2.5	0.135	2.9	0.140	3.0	0.136	3.0	0.137	2.9	0.133	3.1	0.129	2.7	0.141	2.9	0.165	3.4
0.800	0.048	1.0	0.093	2.0	0.092	1.6	0.090	1.9	0.100	2.1	0.092	2.0	0.088	1.9	0.091	2.1	0.087	1.9	0.089	1.8	0.113	2.3
0.400	0.049	1.0	0.070	1.5	0.076	1.4	0.071	1.5	0.077	1.6	0.073	1.6	0.067	1.4	0.067	1.6	0.070	1.5	0.067	1.4	0.075	1.5
0.00	0.049		0.046		0.056		0.047		0.047		0.045		0.047		0.043		0.047		0.049		0.049	

- Background signal with all mAb were low <0.05.
- In spite of slight differences in S/N ratio between clones 10-1, 10-4, 10-5, 10-9, 10-12, 12-1, 12-3, 12-8, and 12-10 (all but clone 6.3), the QC recovery for all mentioned clones was within $\pm 20\%$.
- HQC (38 ng/mL), MQC (12 ng/mL), LQC (1.2 ng/mL)

FIG. 4A

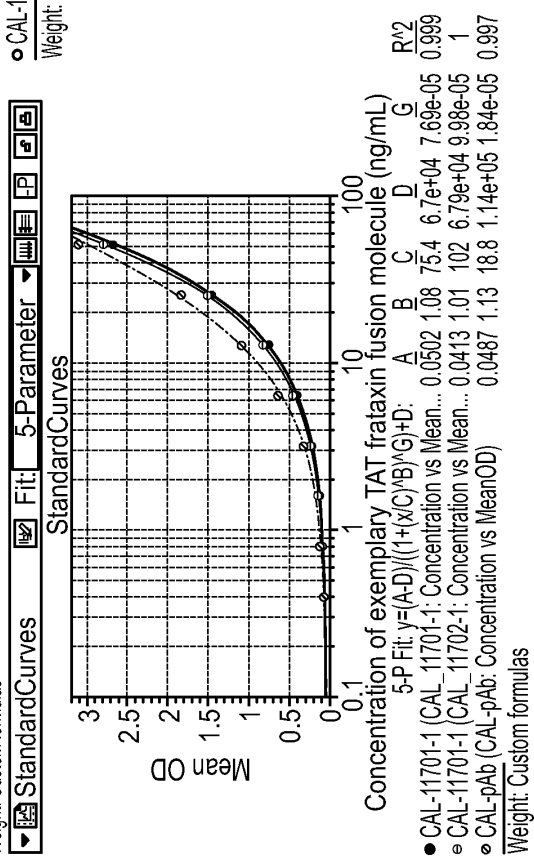
Exemplary TAT frataxin fusion molecule PK Assay in Human Plasma



- 9/10 mAbs (all but 6.3) were able to capture exemplary TAT frataxin fusion molecule effectively.

- Other than 6.3 clone, all other clones performed well and very similar as the capture reagent.

FIG. 4B



Anti-exemplary TAT frataxin fusion molecule ADA Assay in Human Plasma

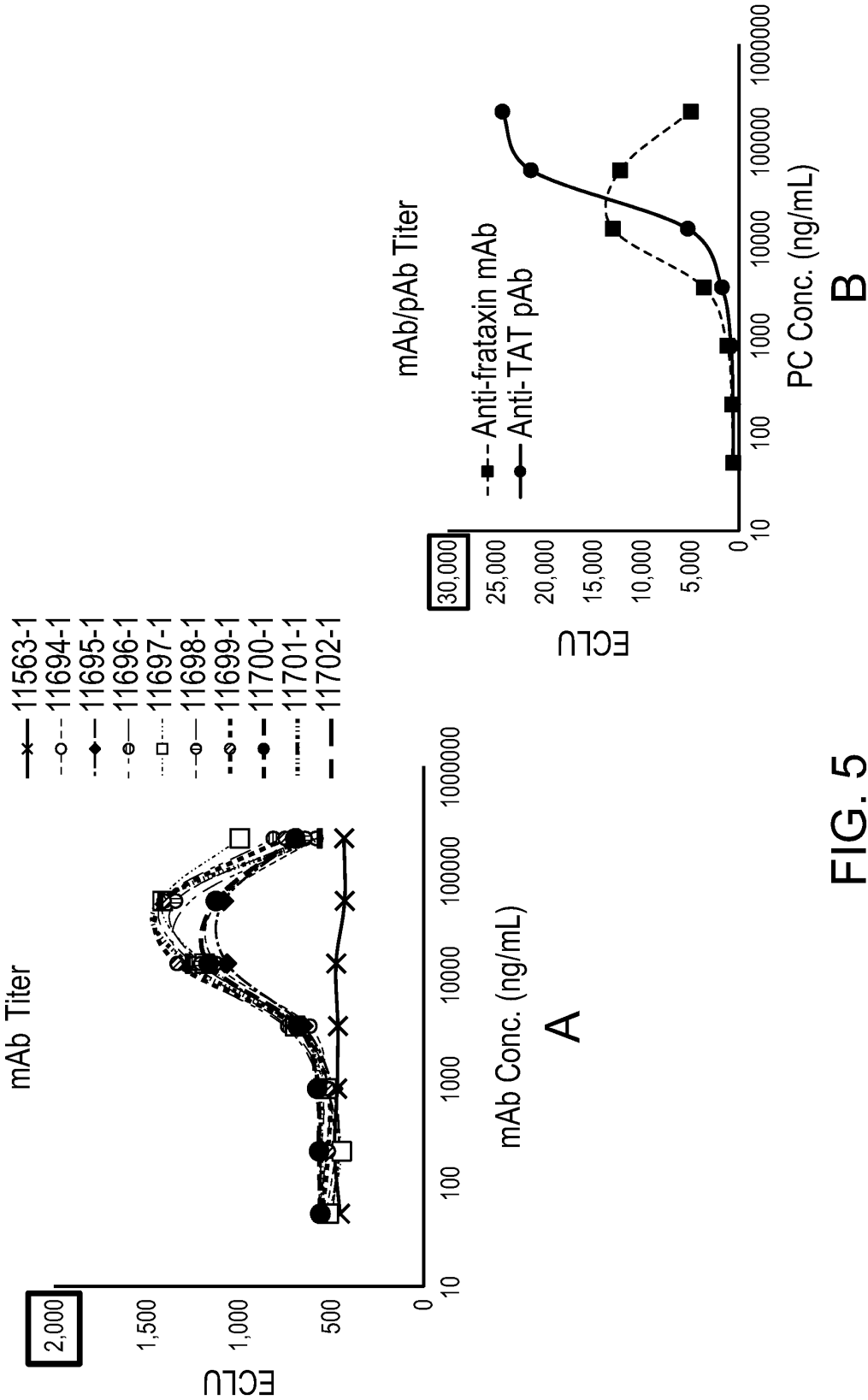


FIG. 5