

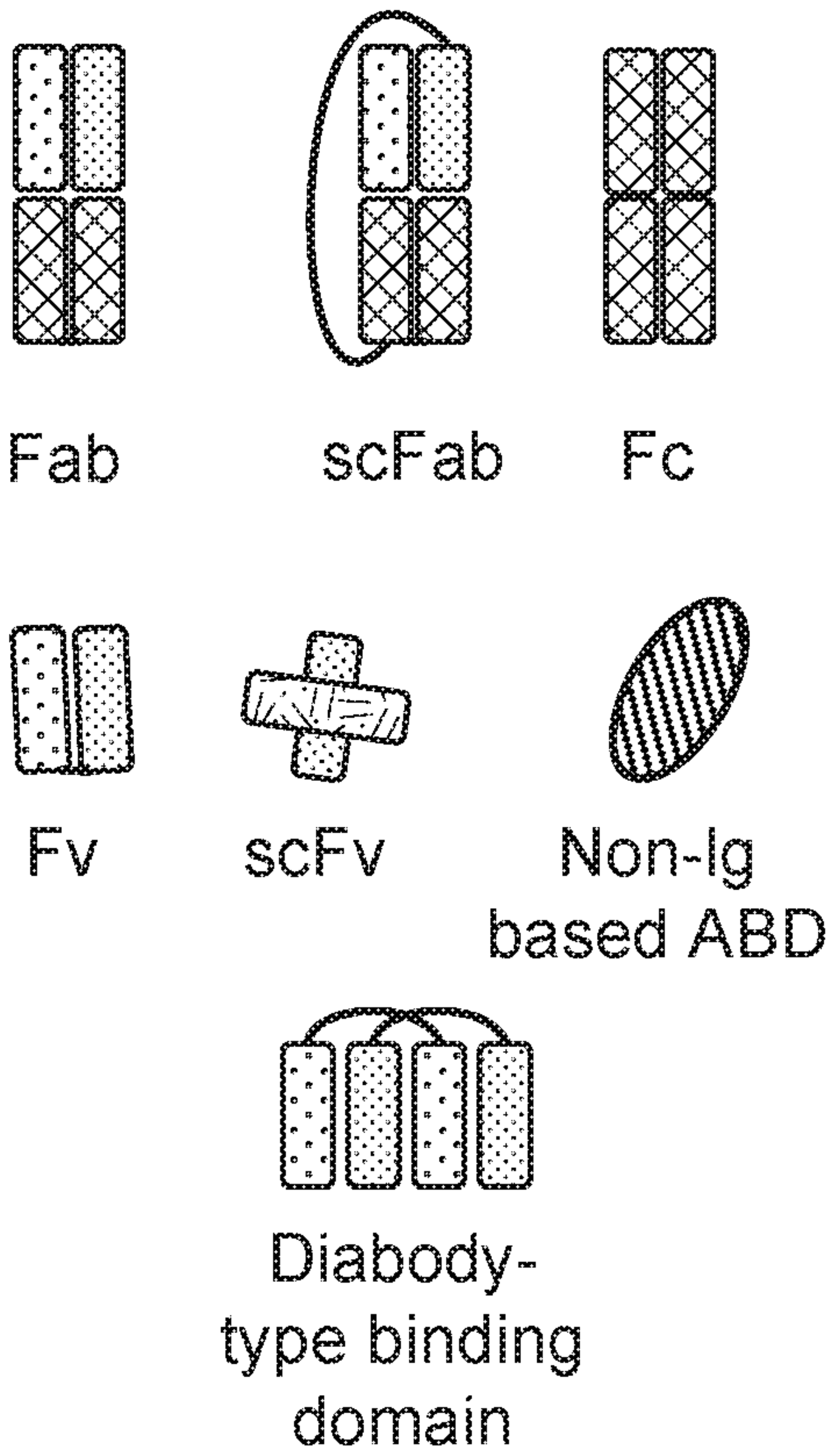


FIG. 1A

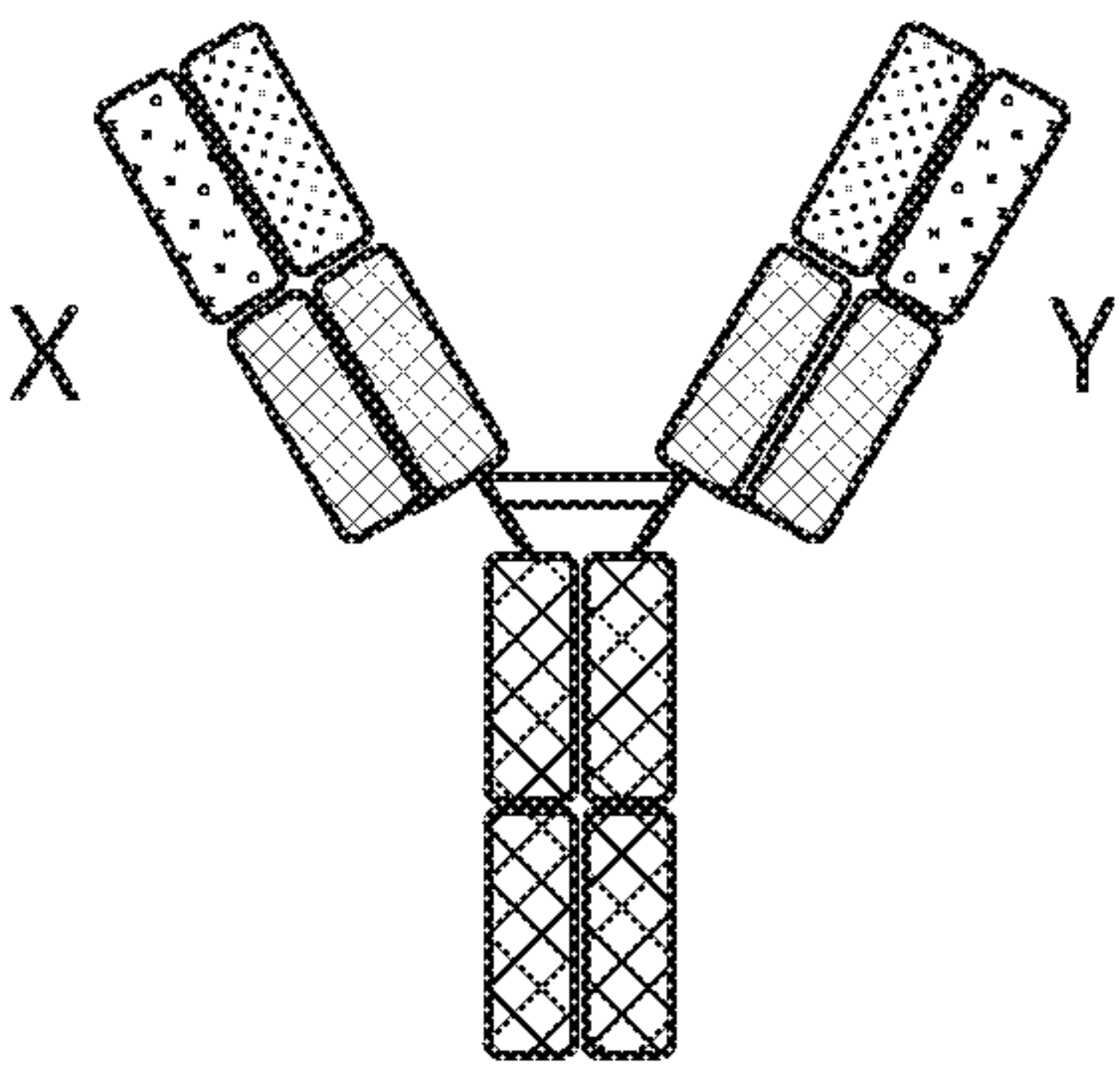


FIG. 1B

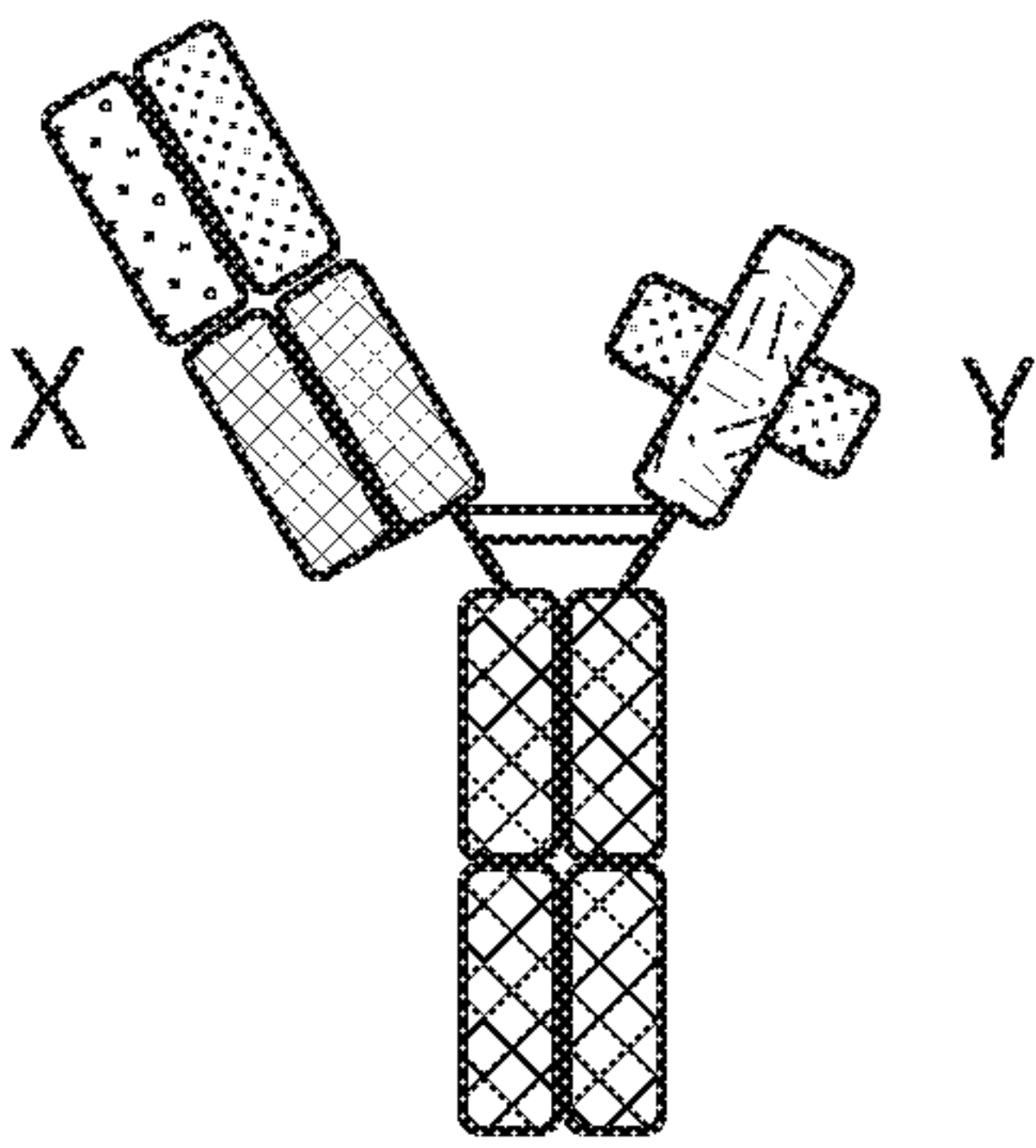


FIG. 1C

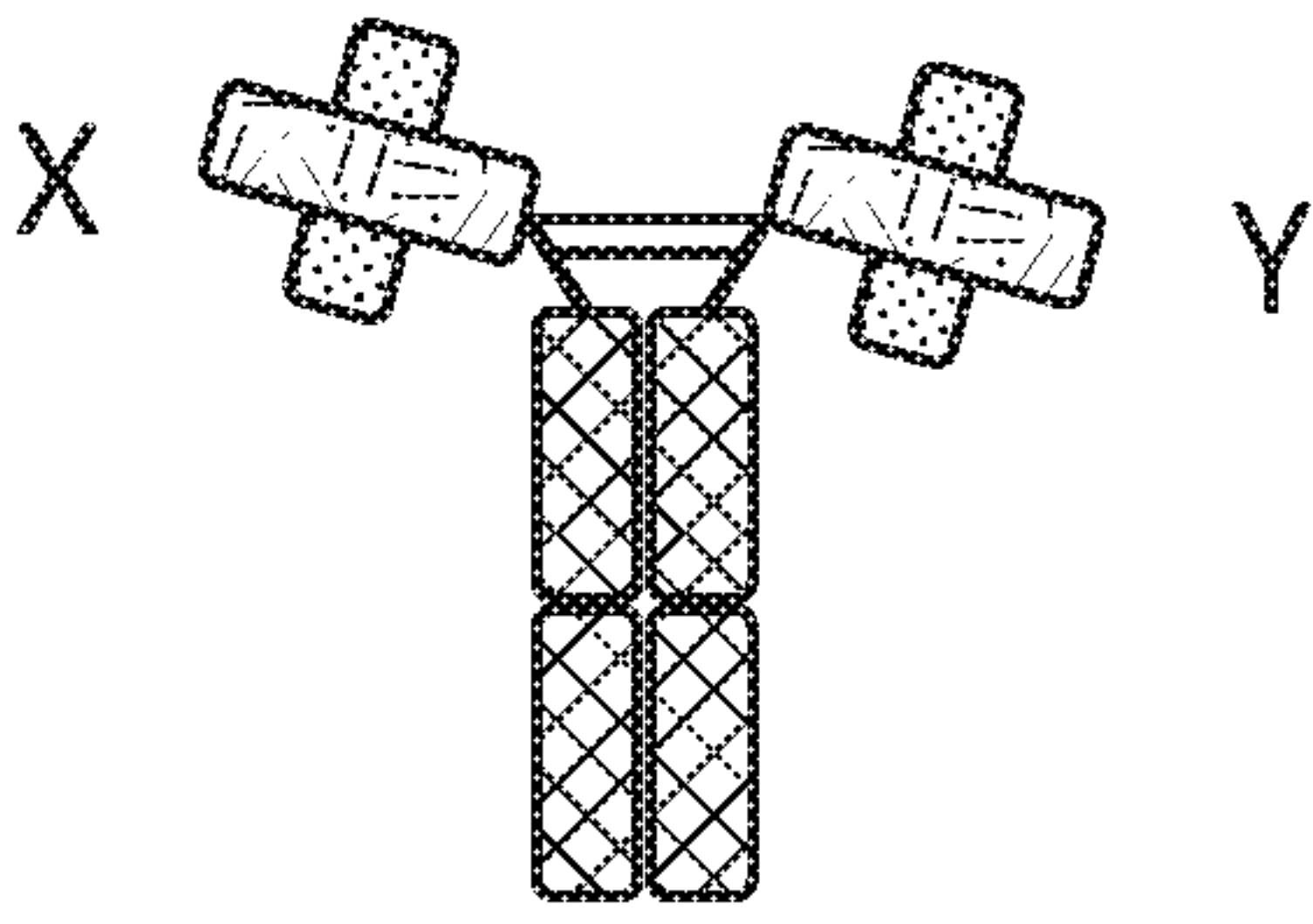


FIG. 1D

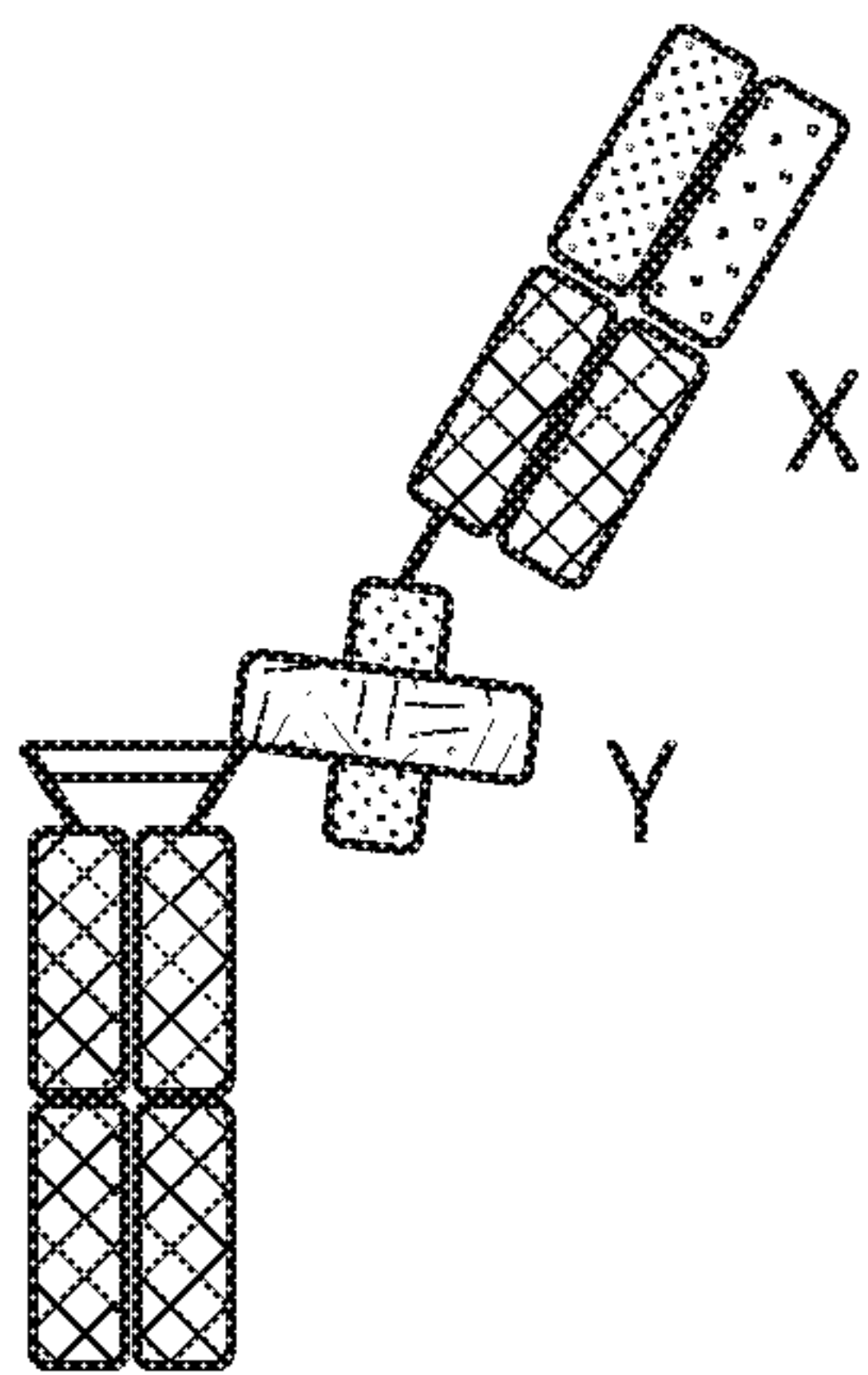


FIG. 1E

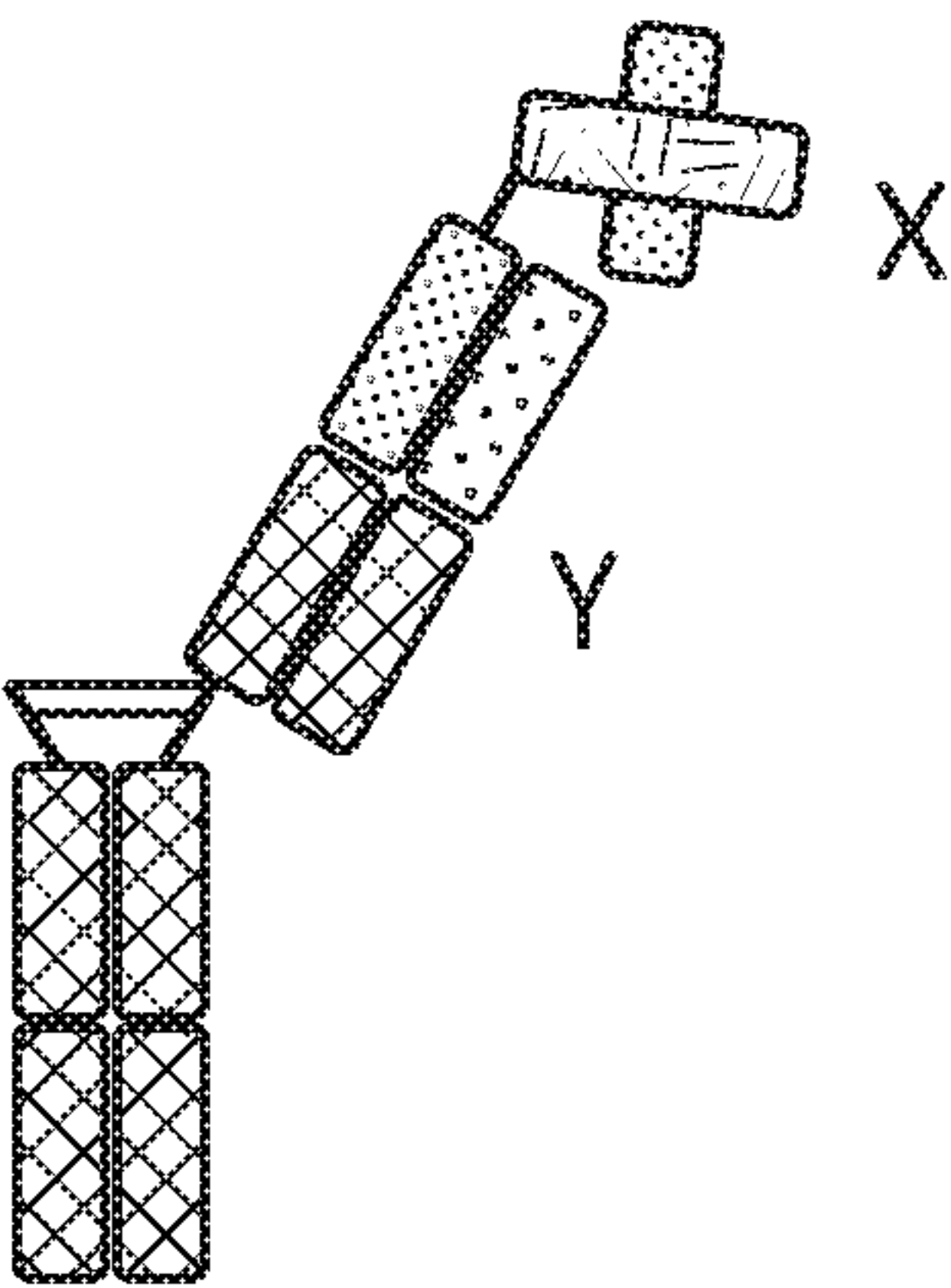


FIG. 1F

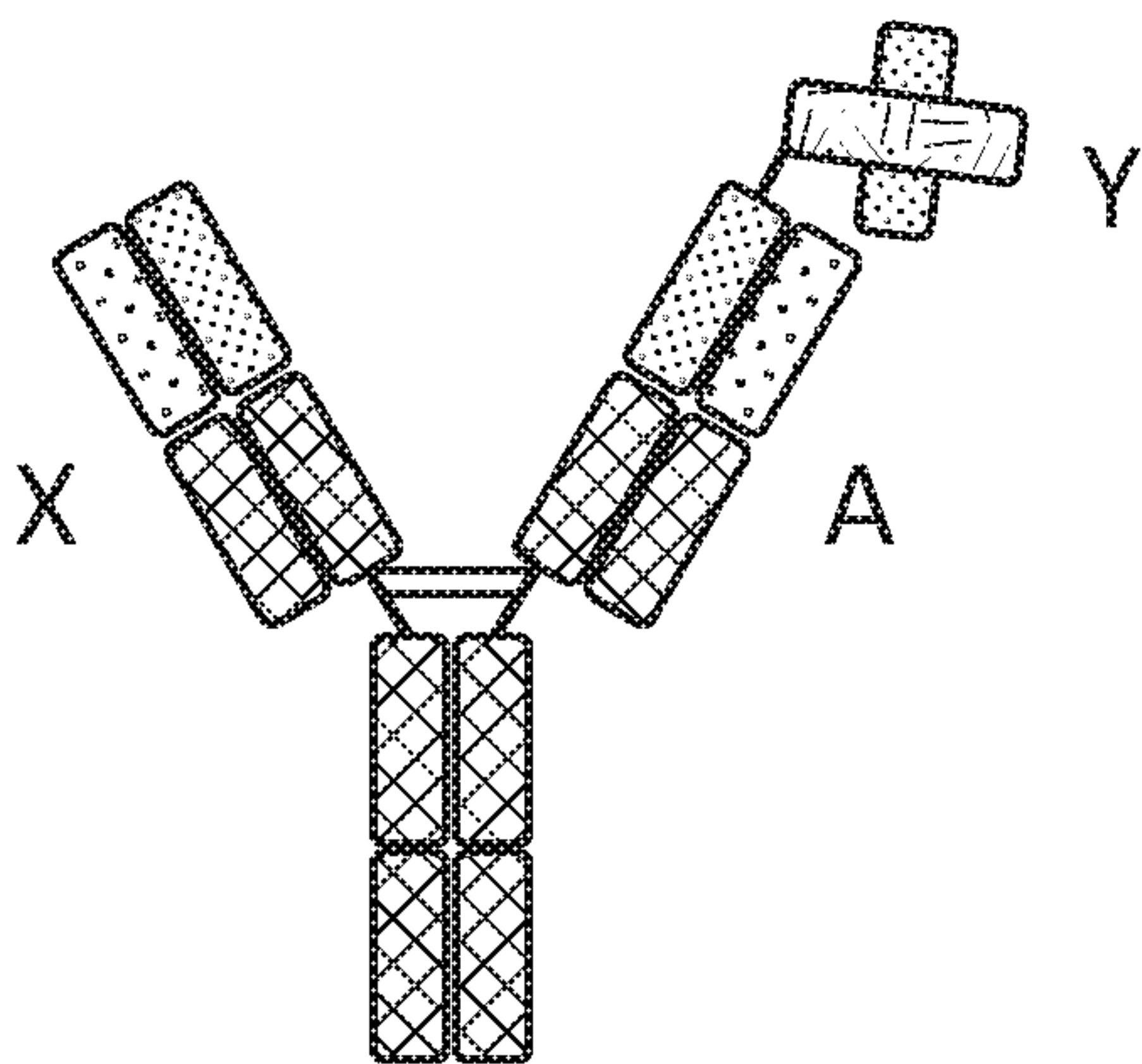


FIG. 1G

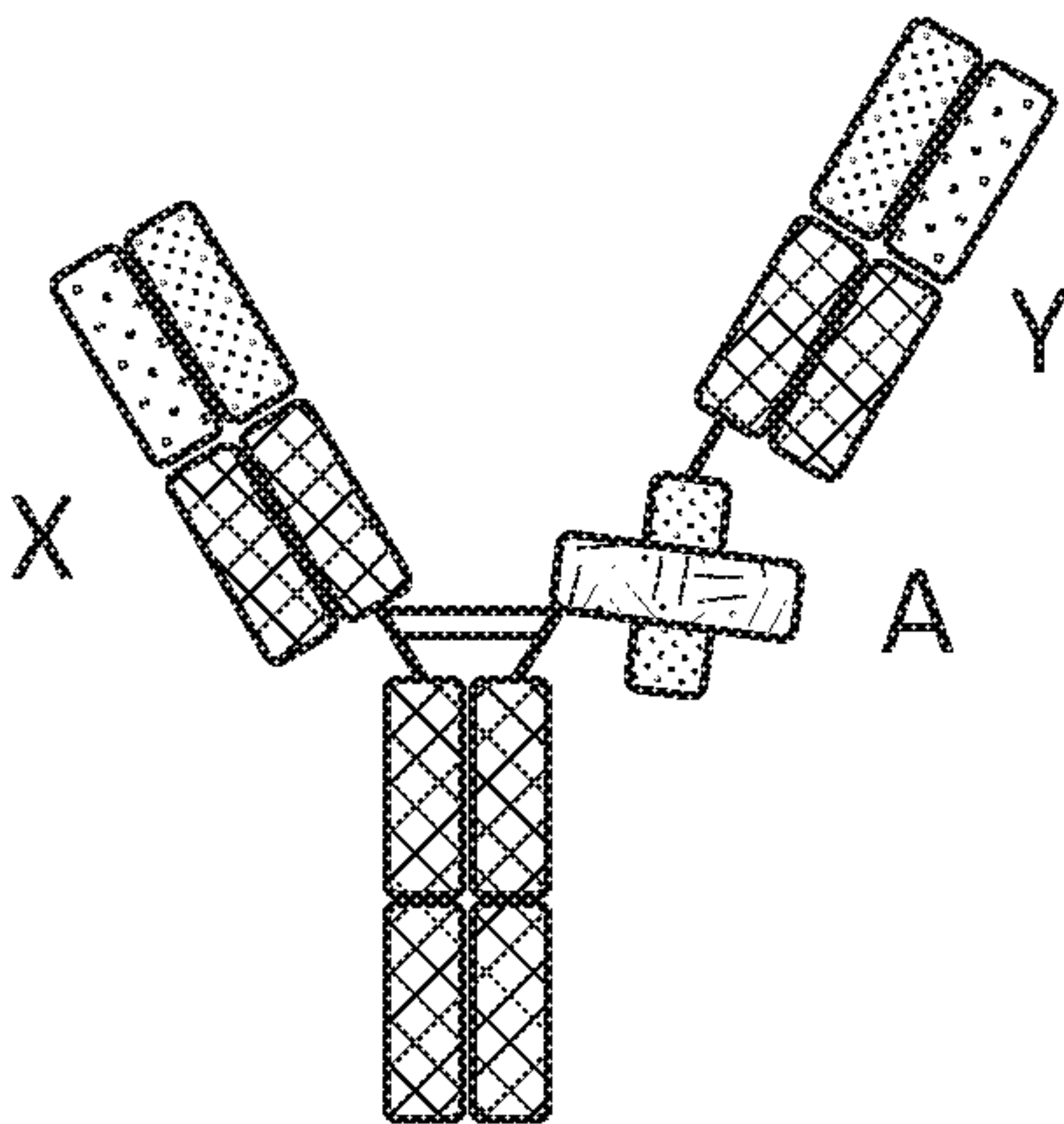


FIG. 1H

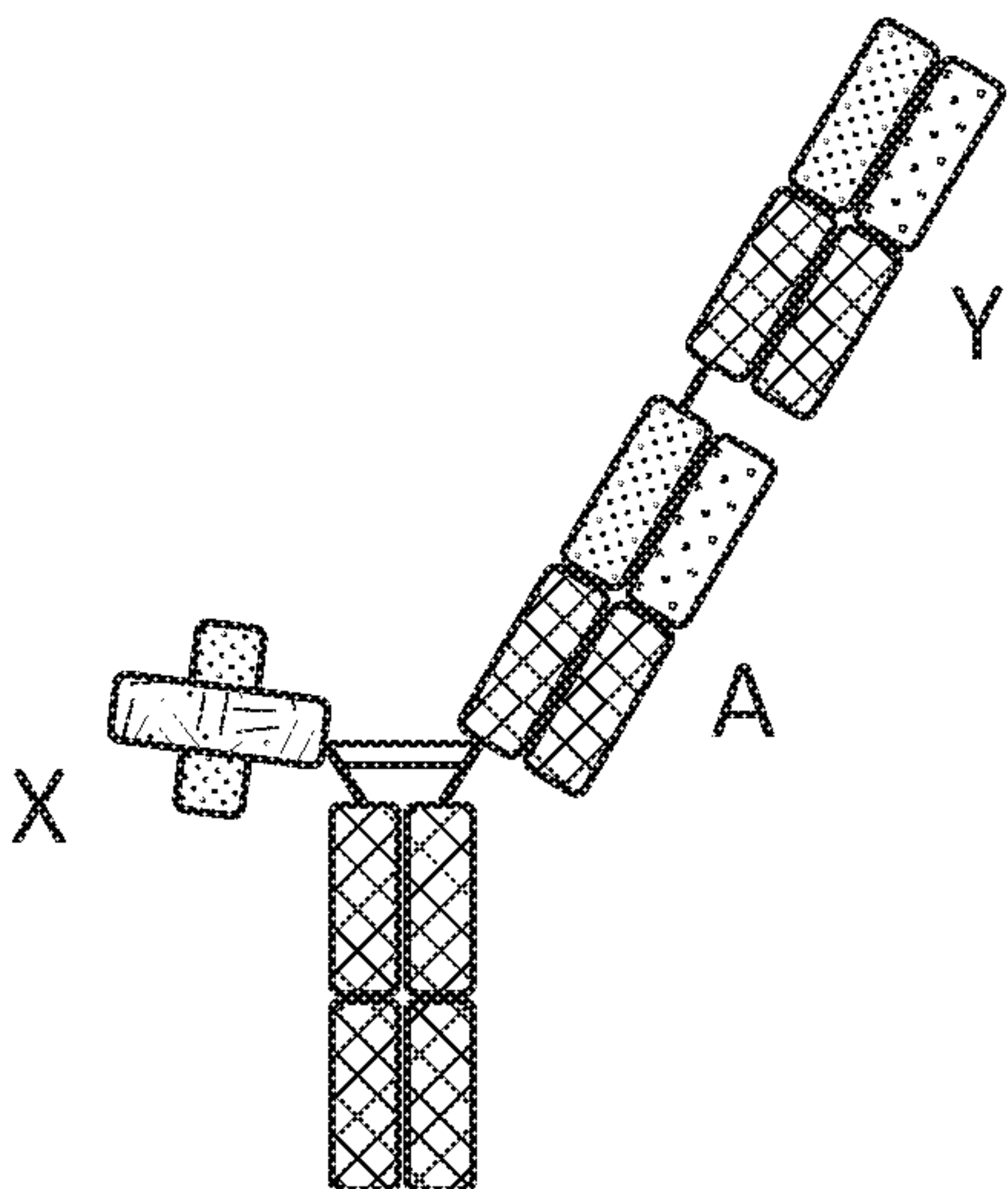


FIG. 1I

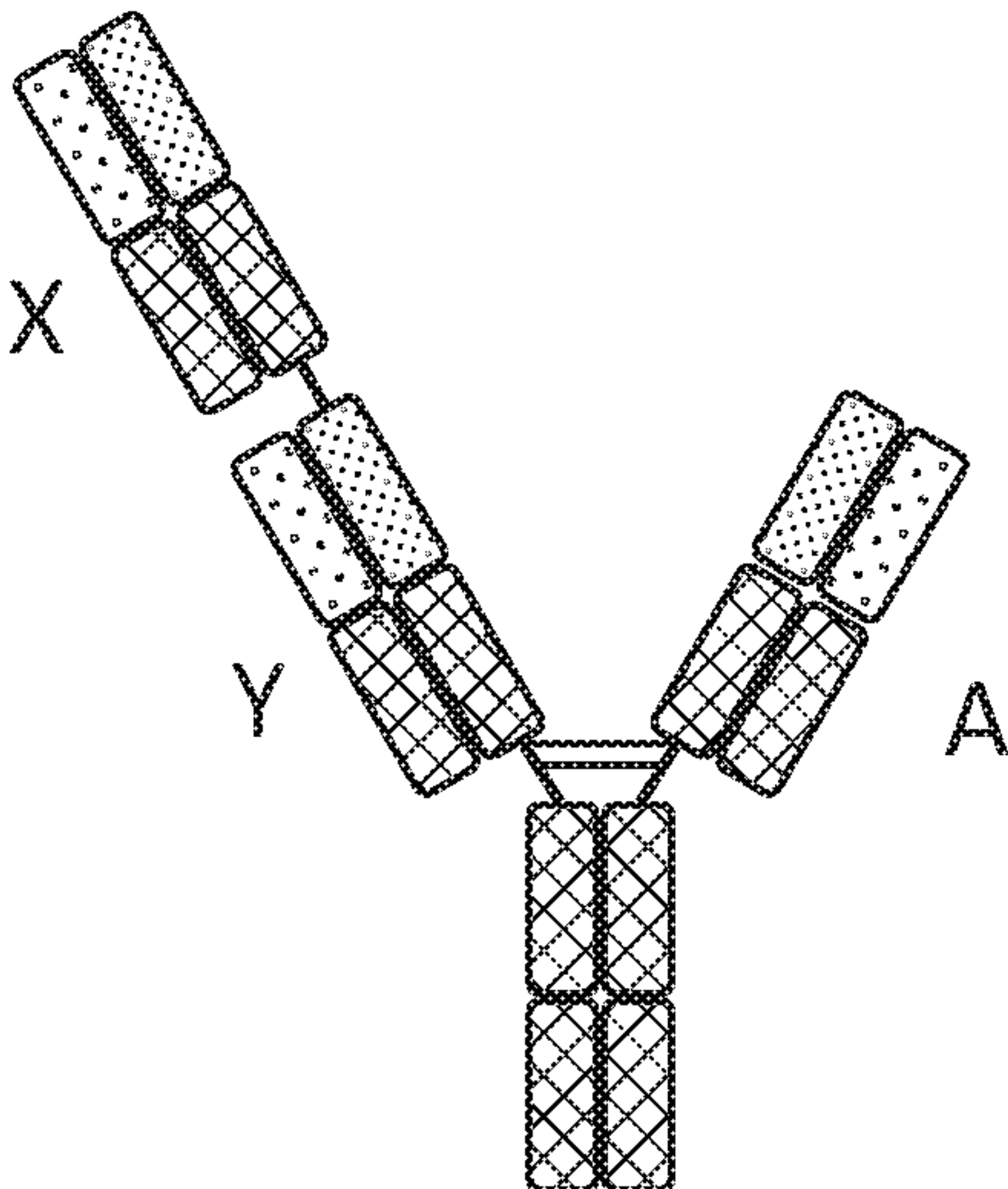


FIG. 1J

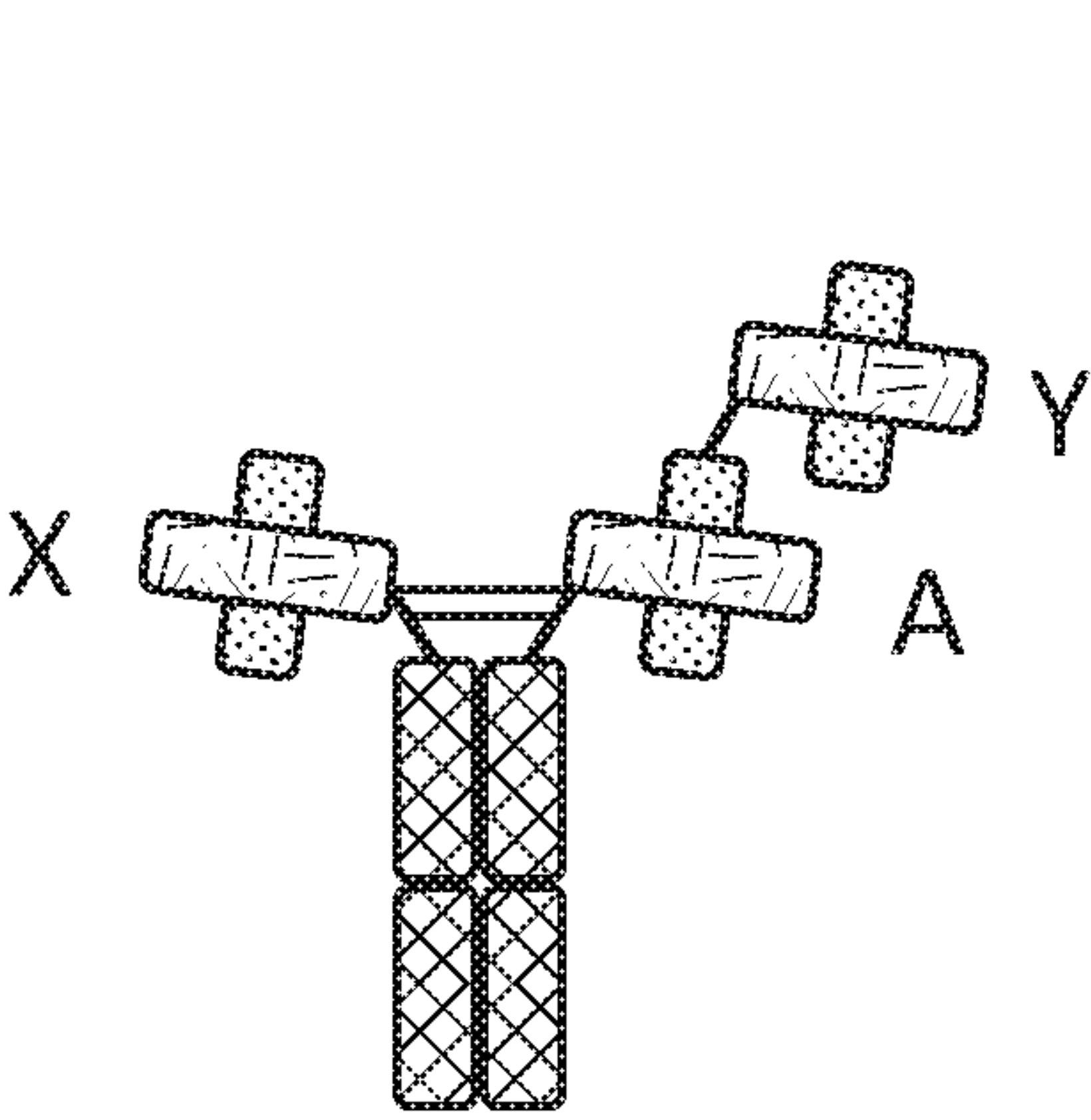


FIG. 1K

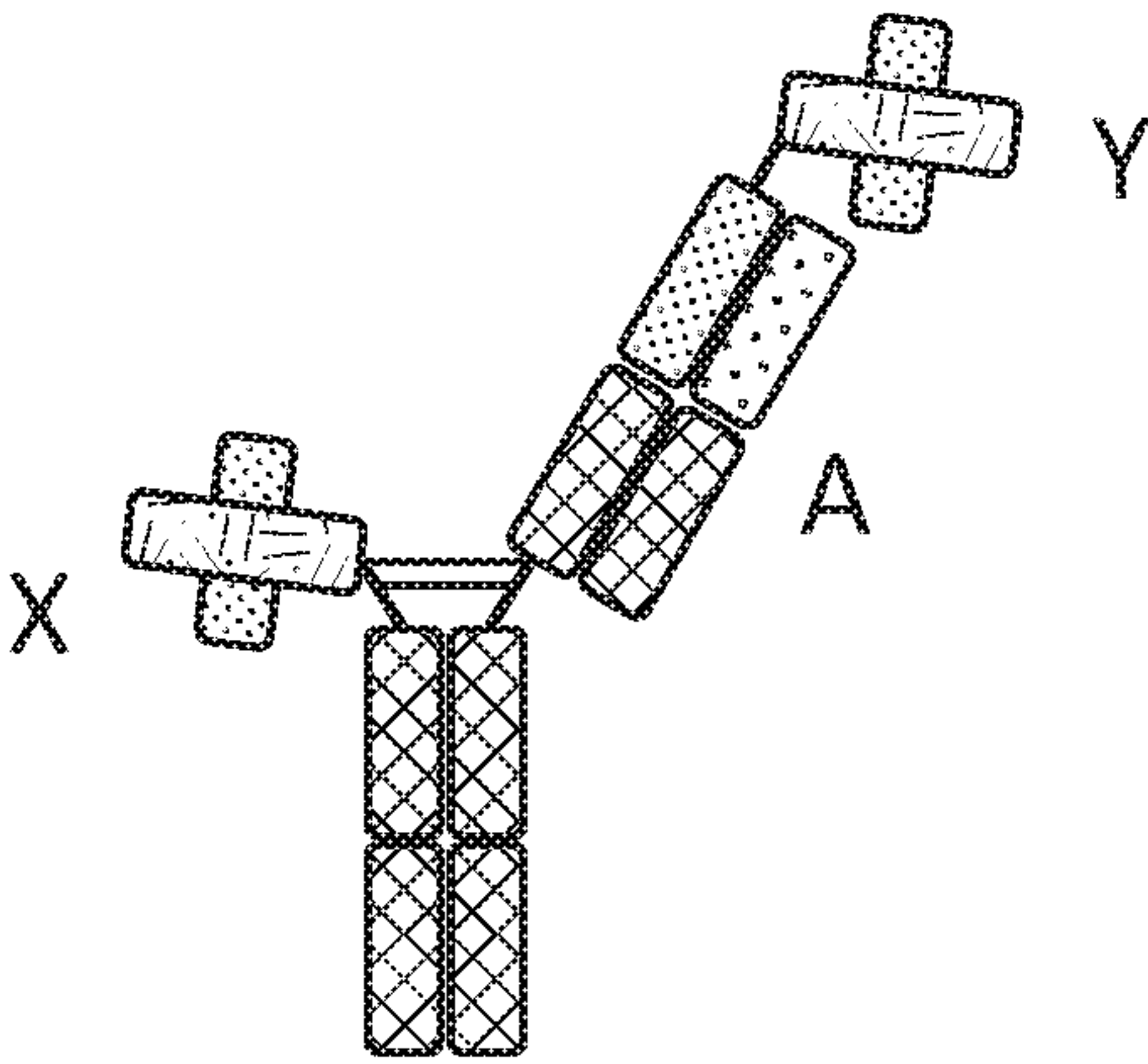


FIG. 1L

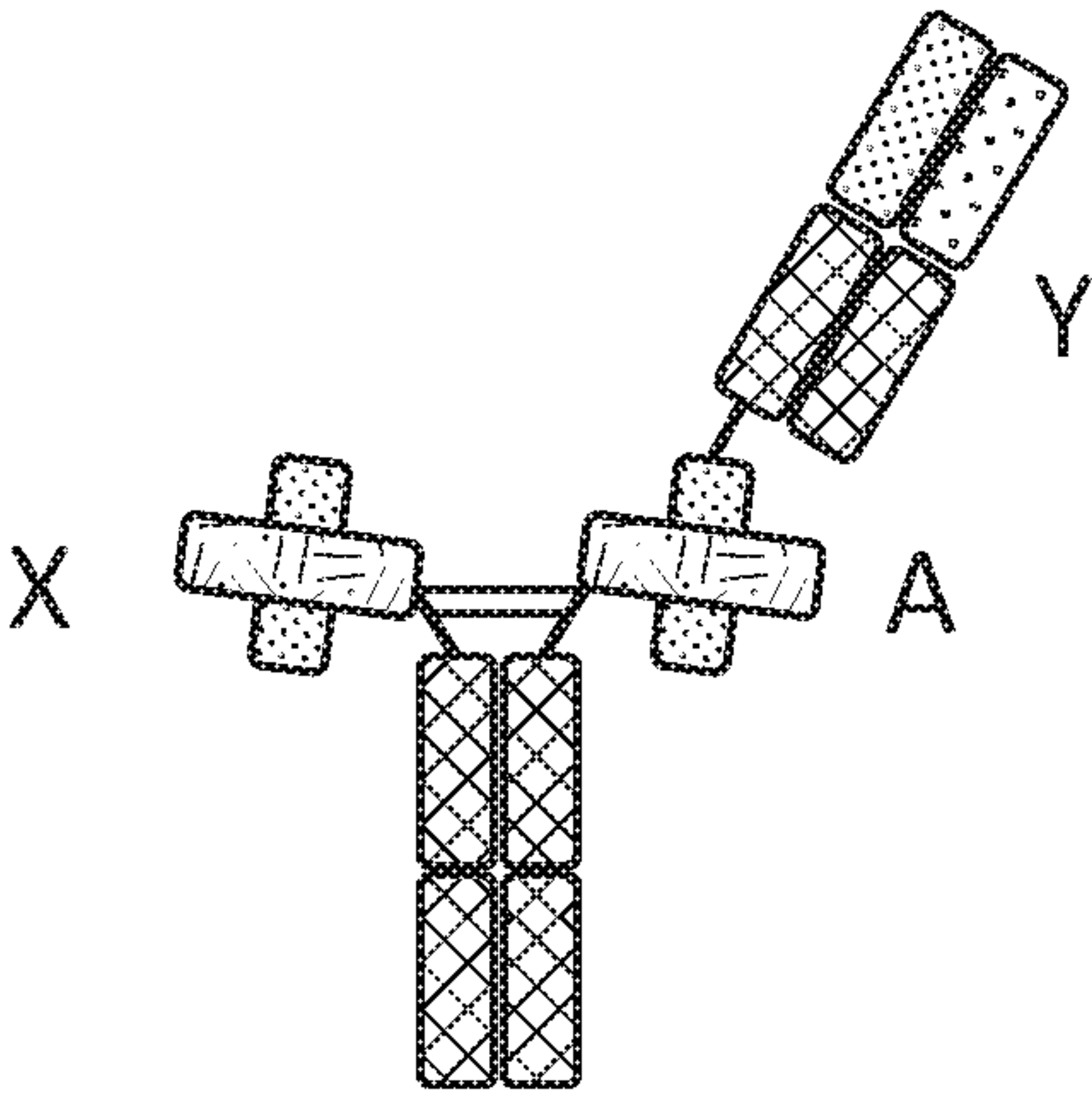


FIG. 1M

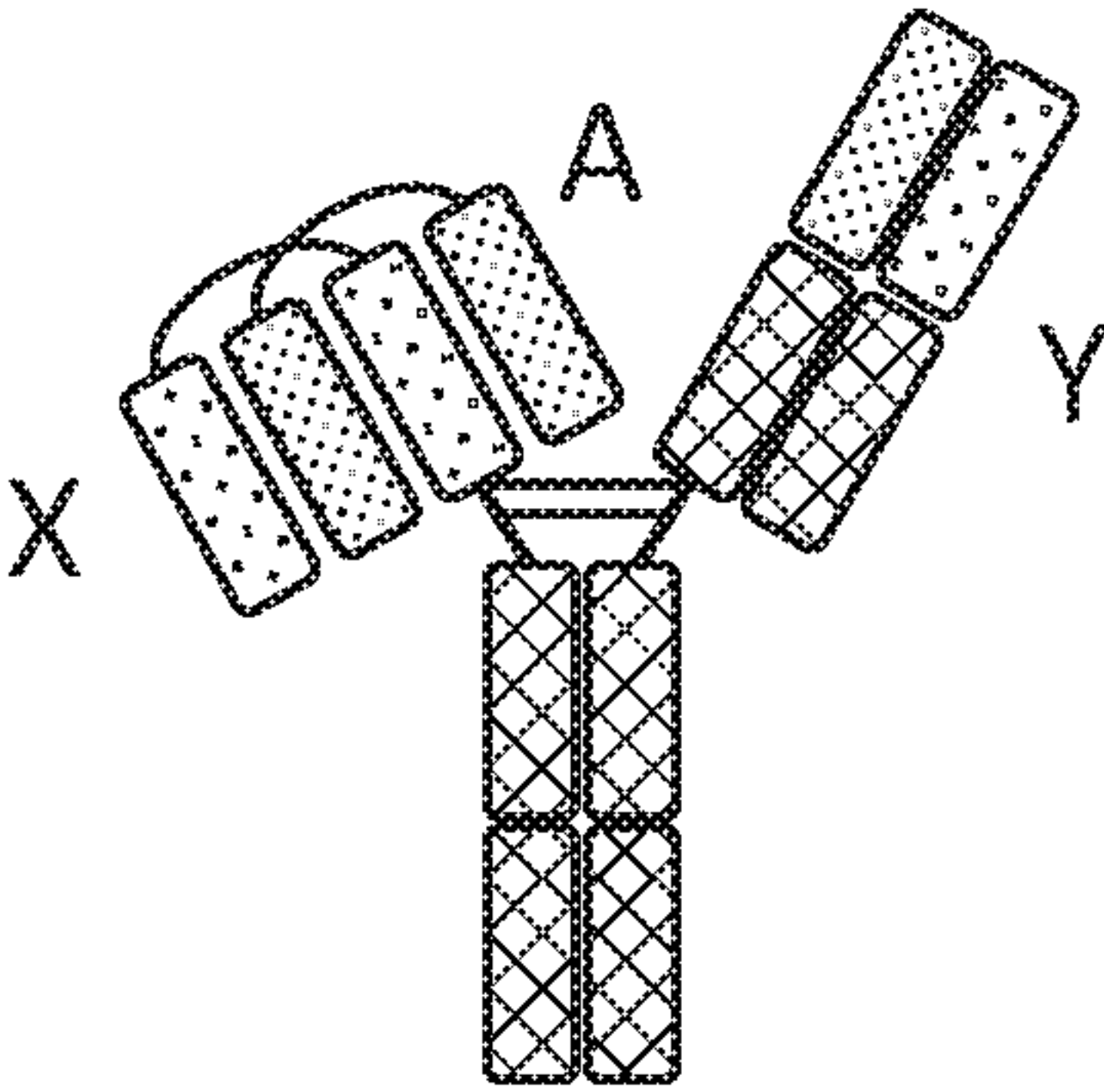


FIG. 1N

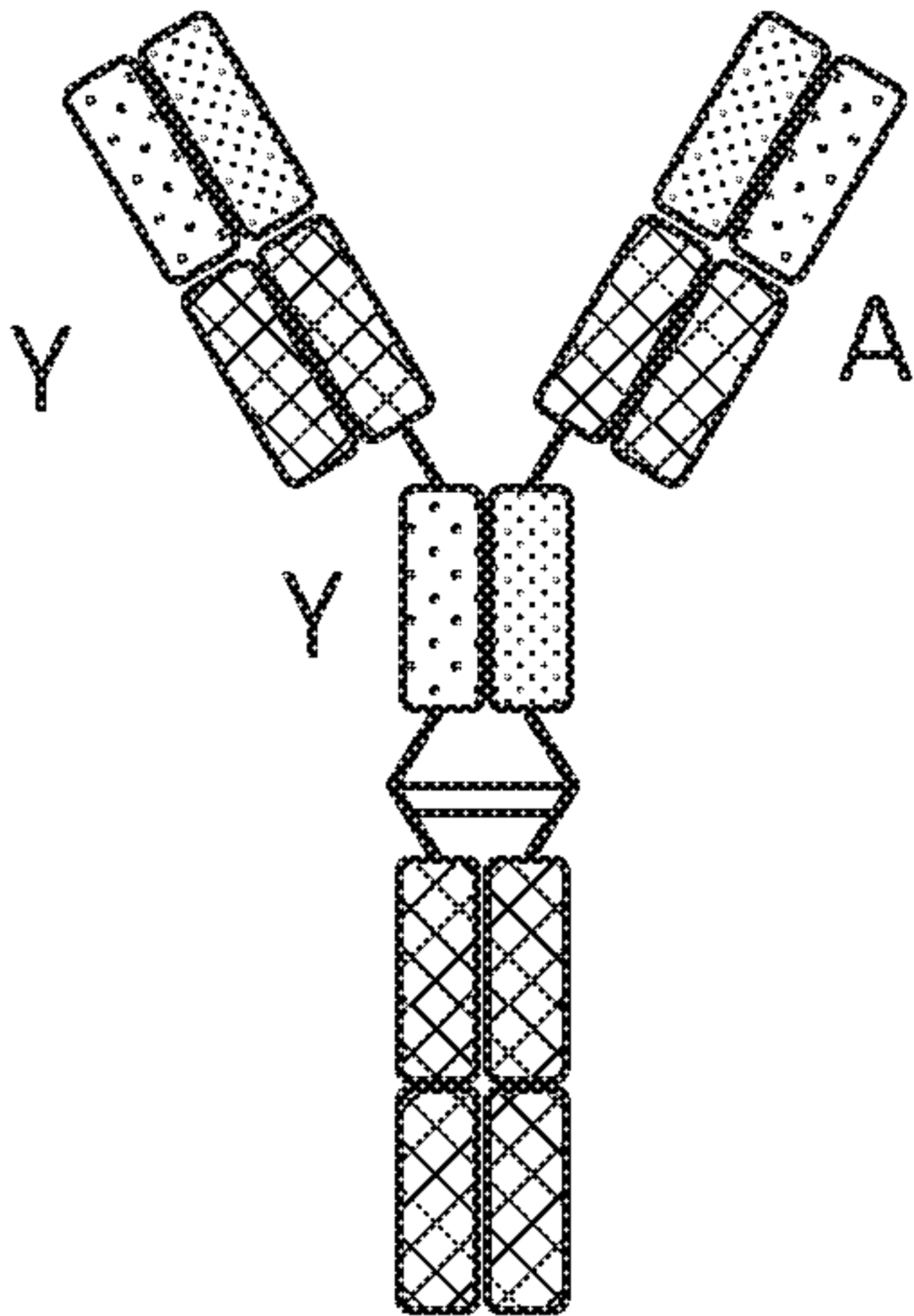


FIG. 1O

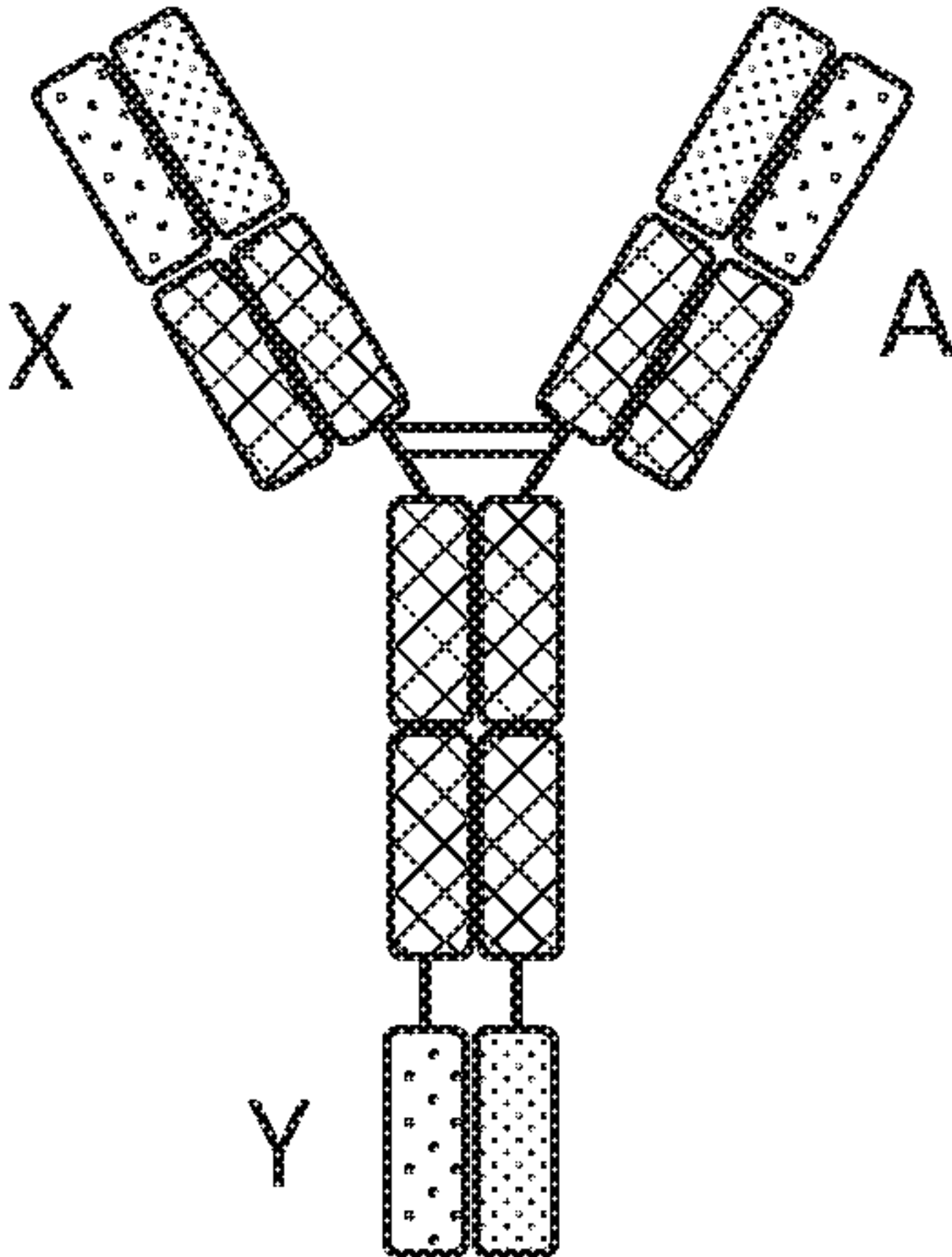


FIG. 1P

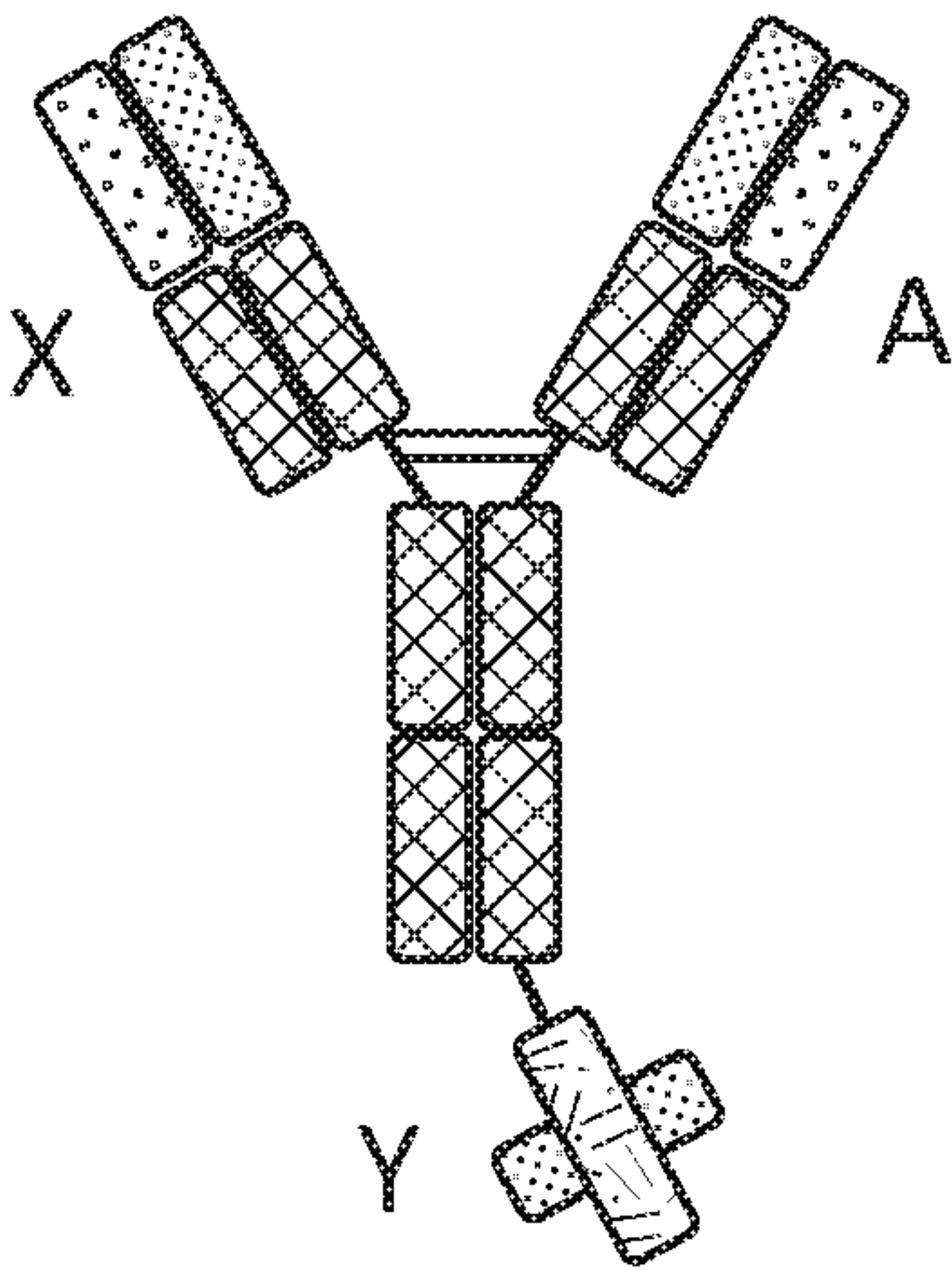


FIG. 1Q

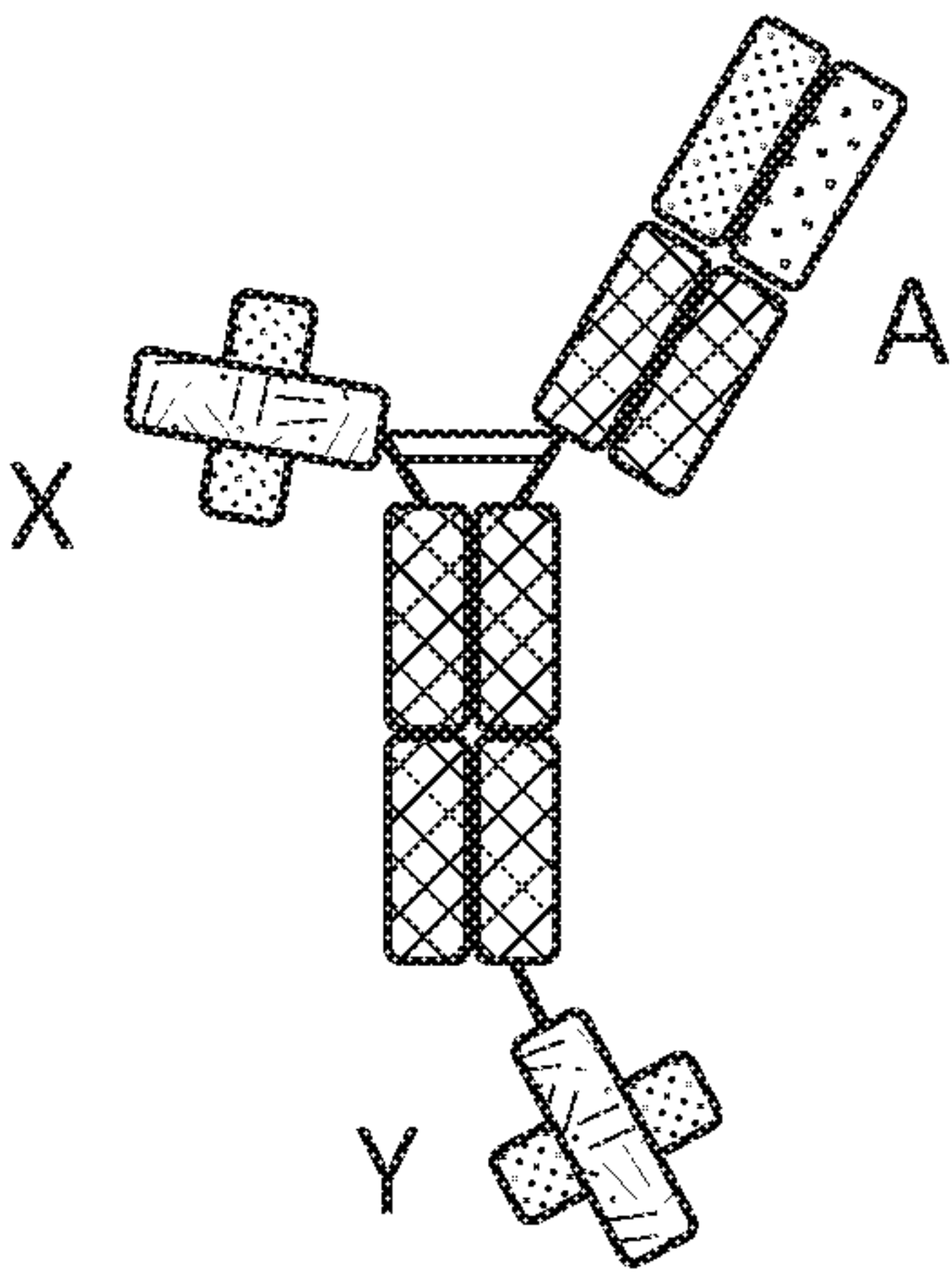


FIG. 1R

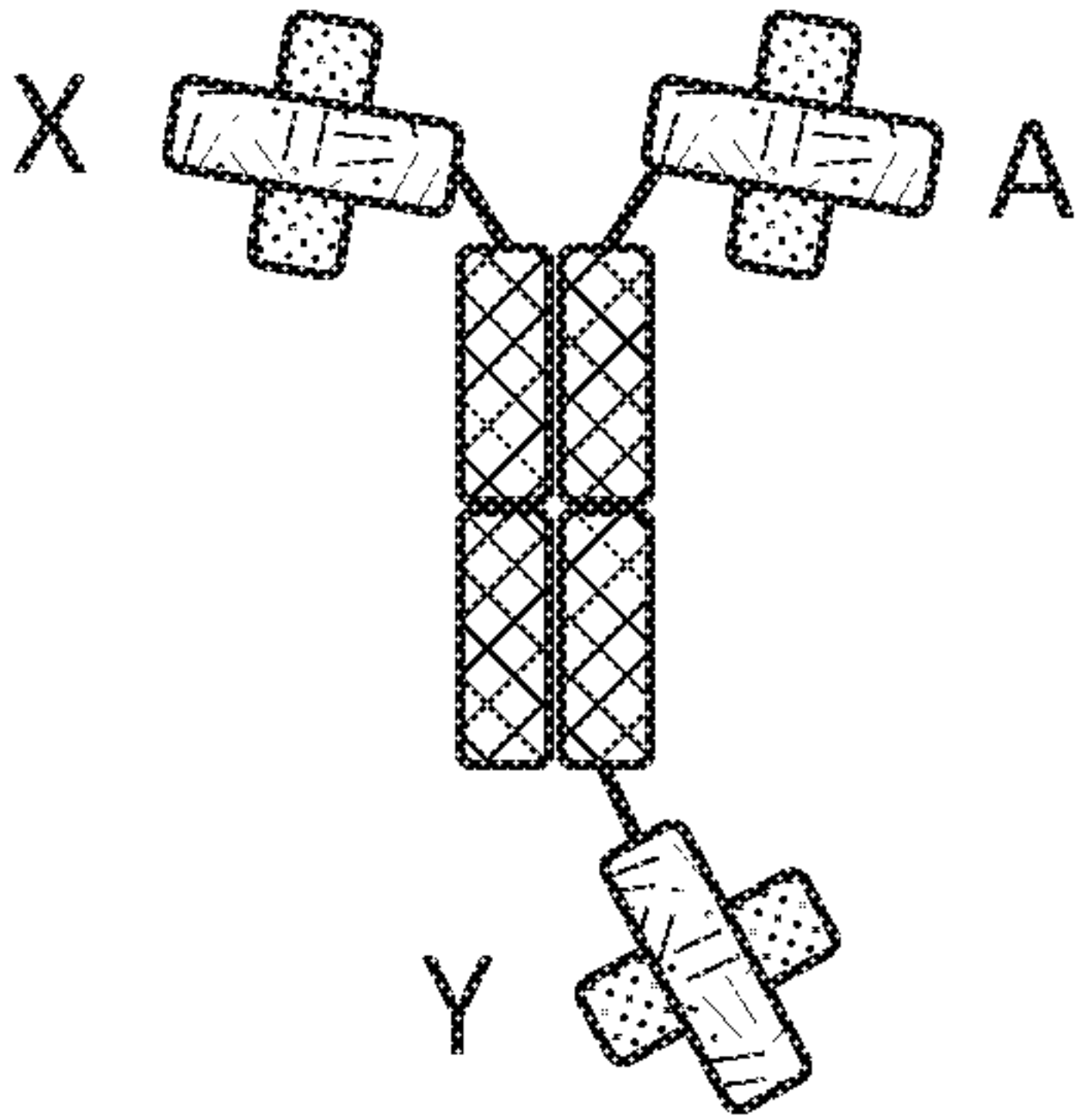


FIG. 1S

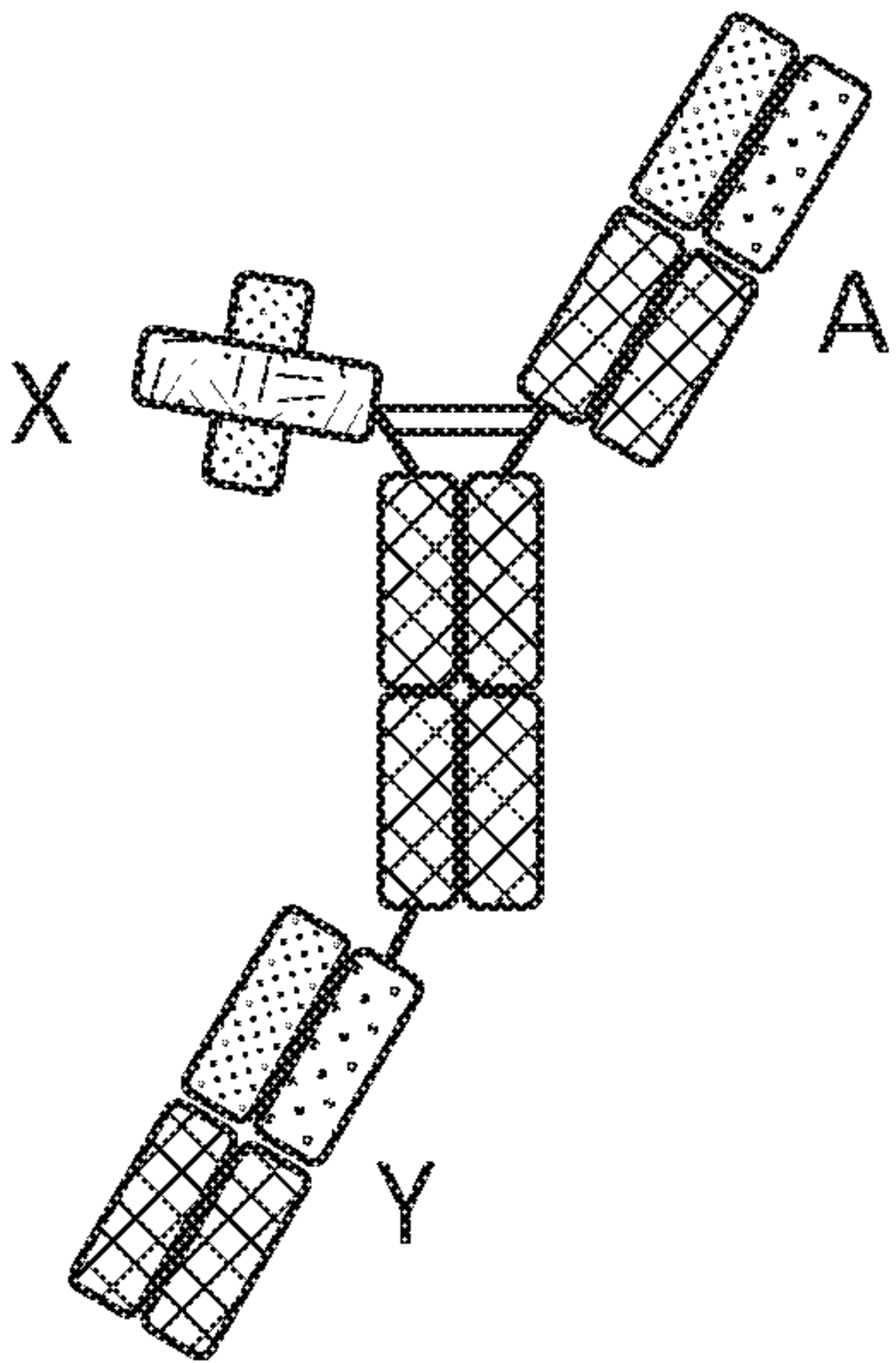


FIG. 1T

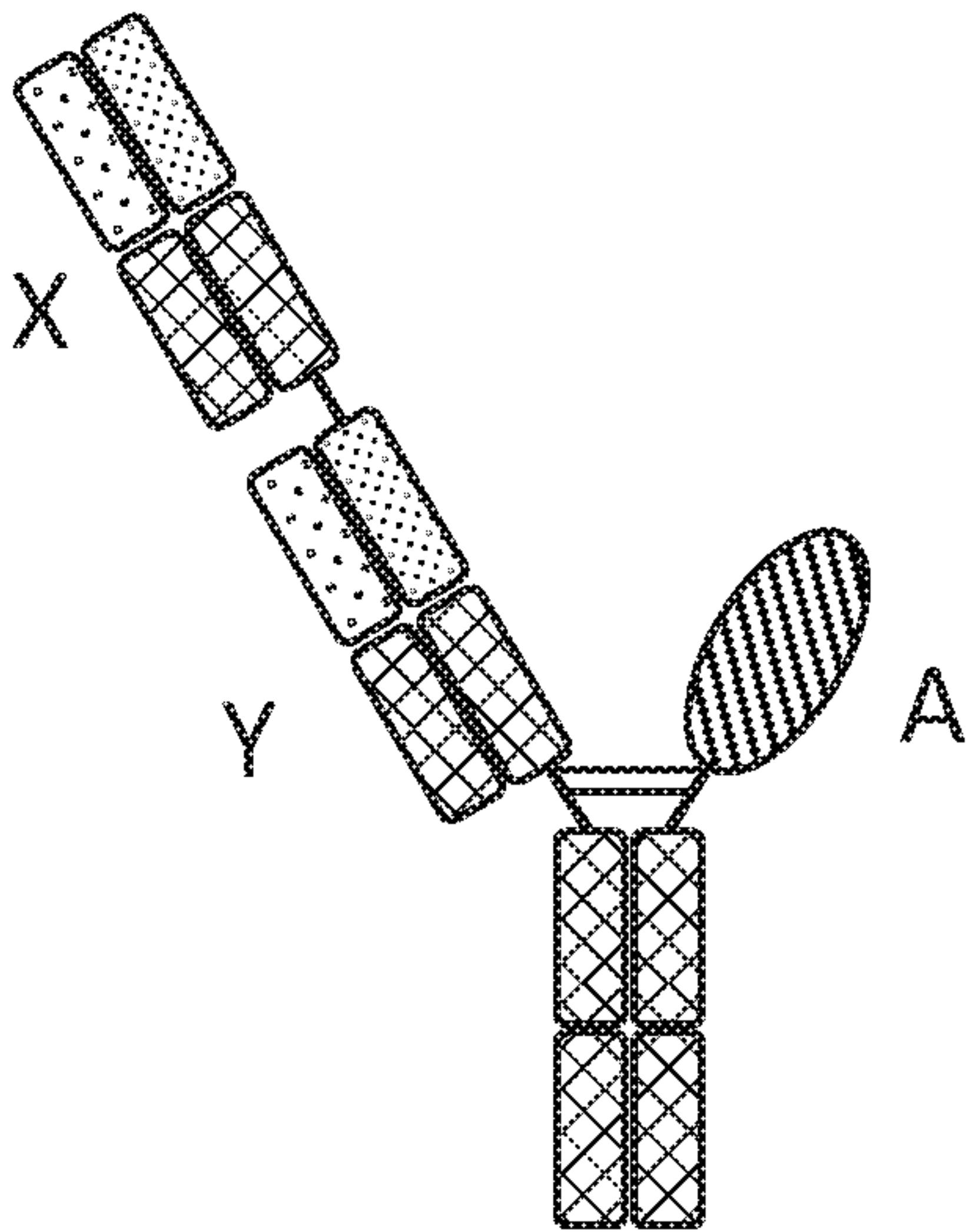


FIG. 1U

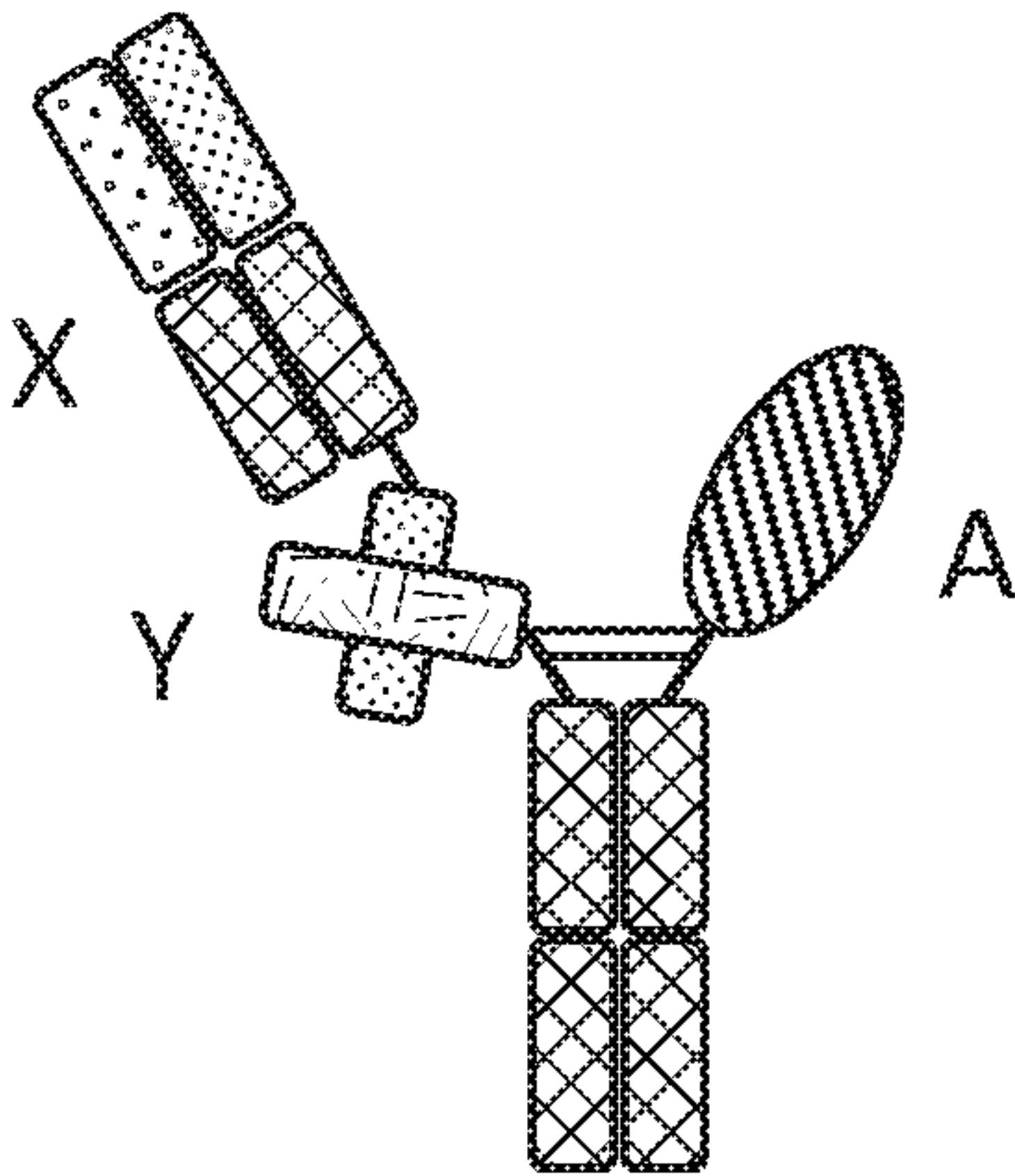


FIG. 1V

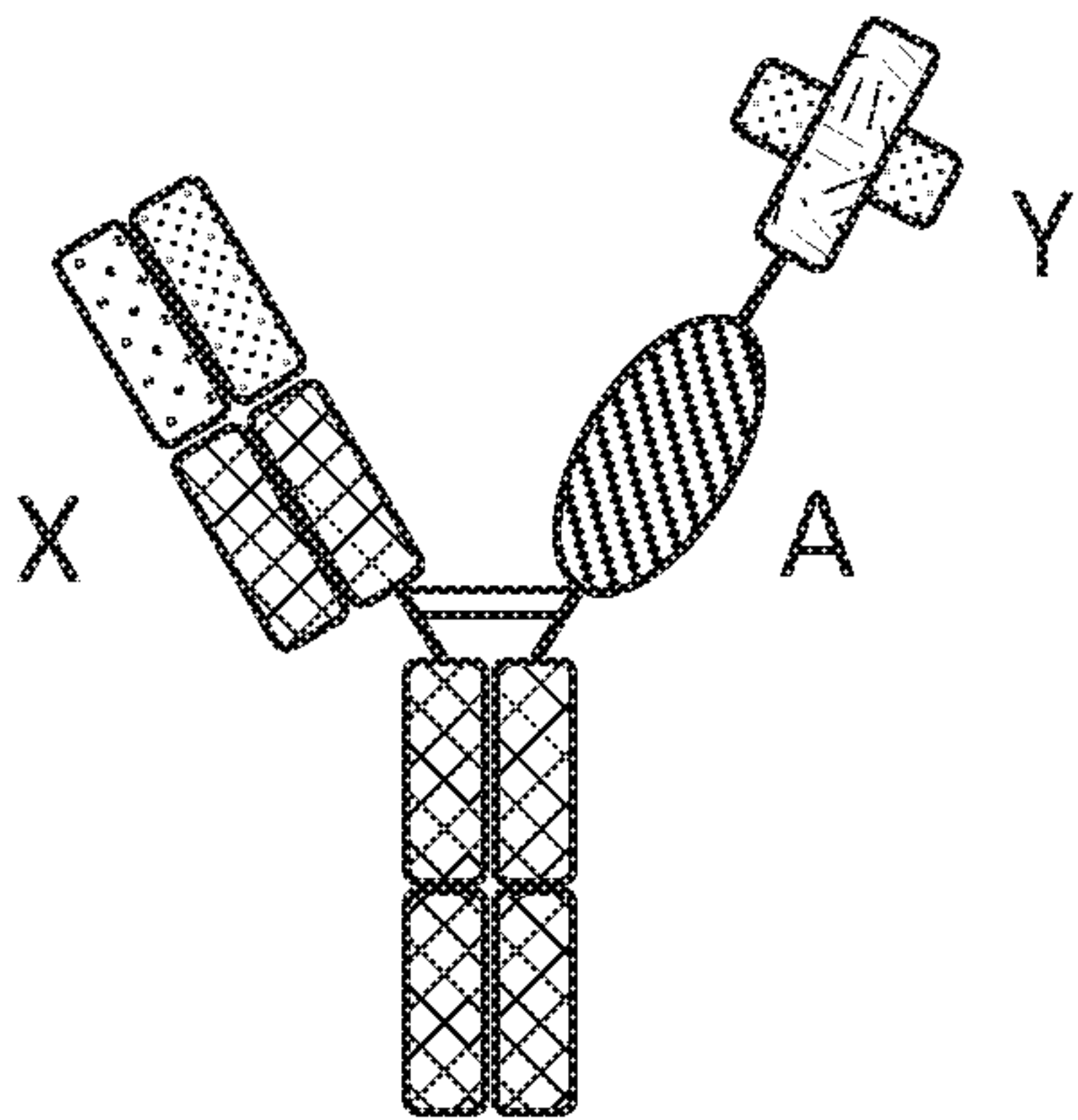


FIG. 1W

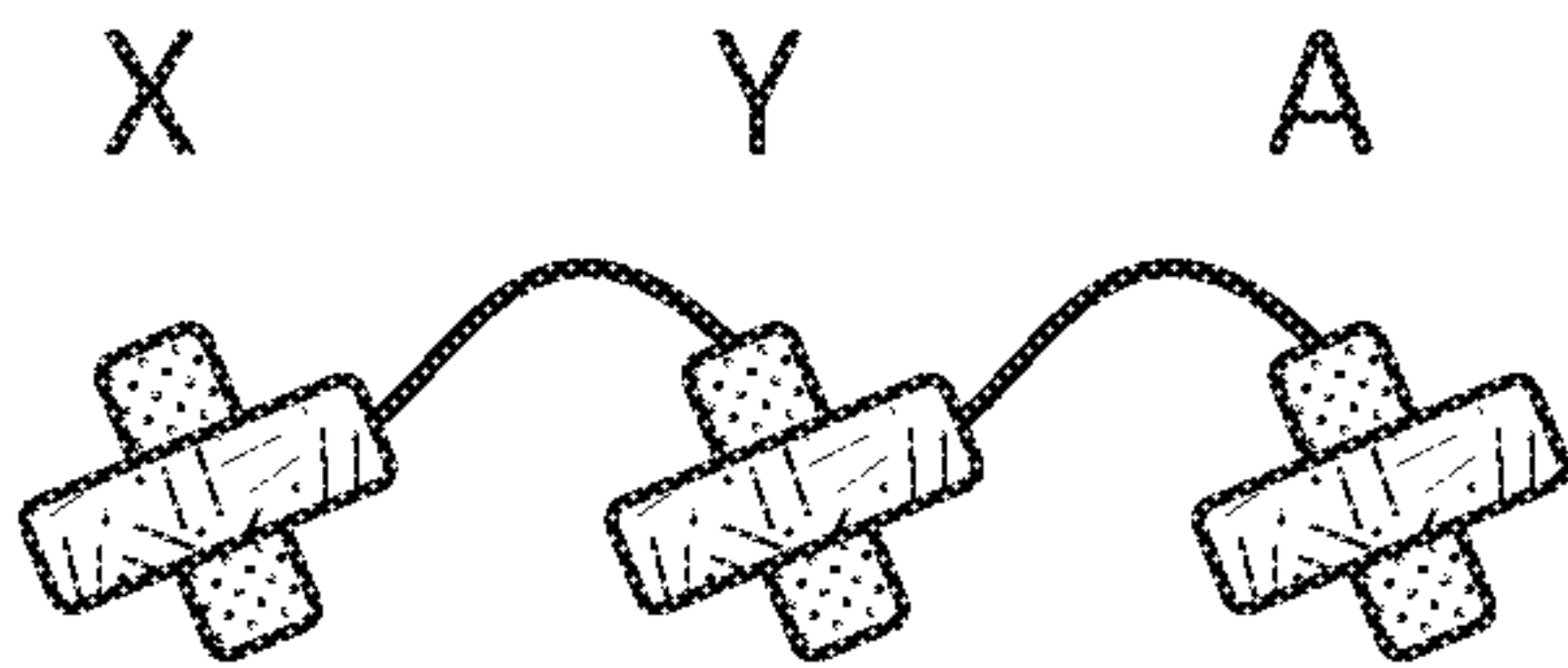


FIG. 1X

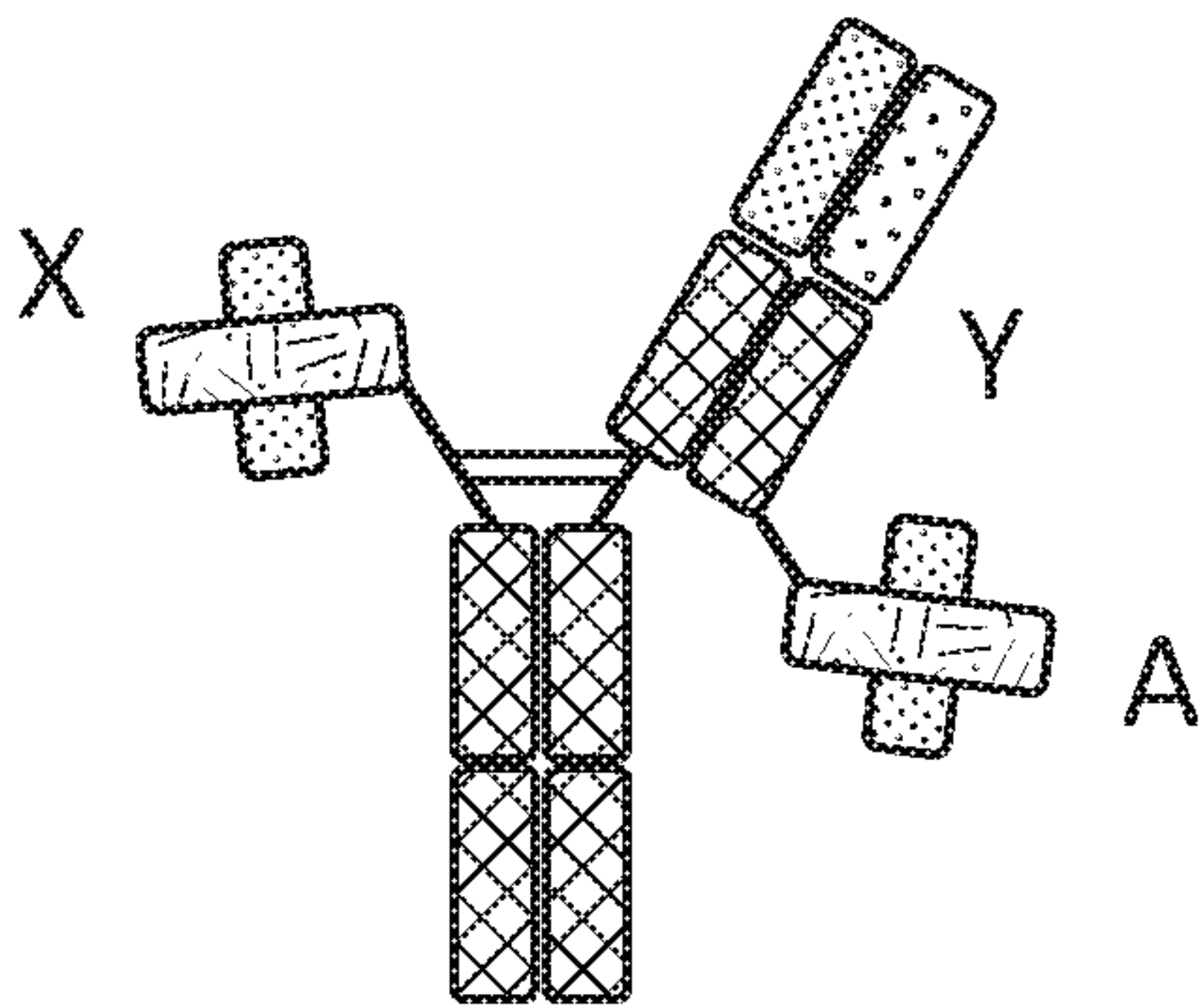


FIG. 1Y

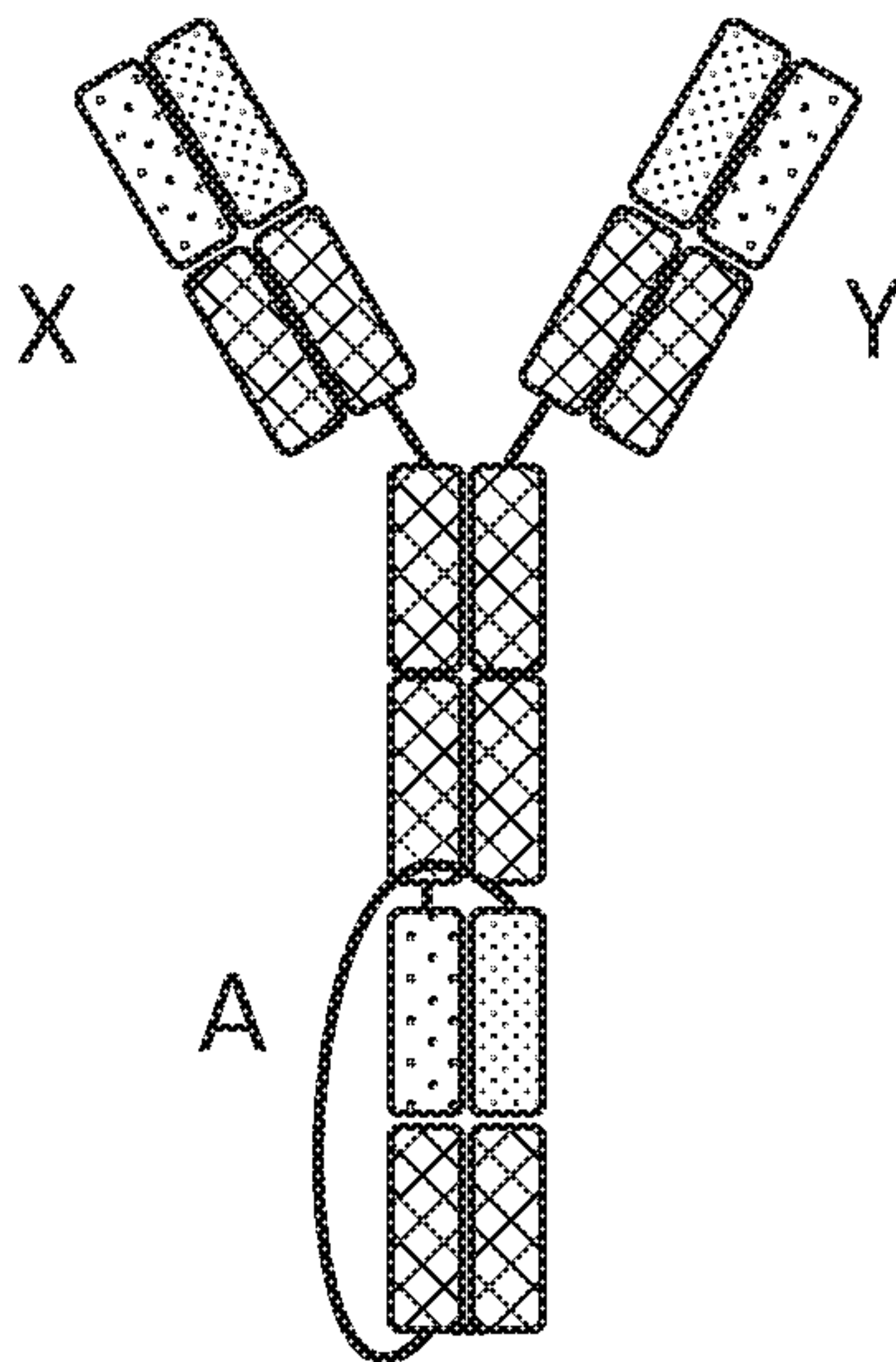


FIG. 1Z

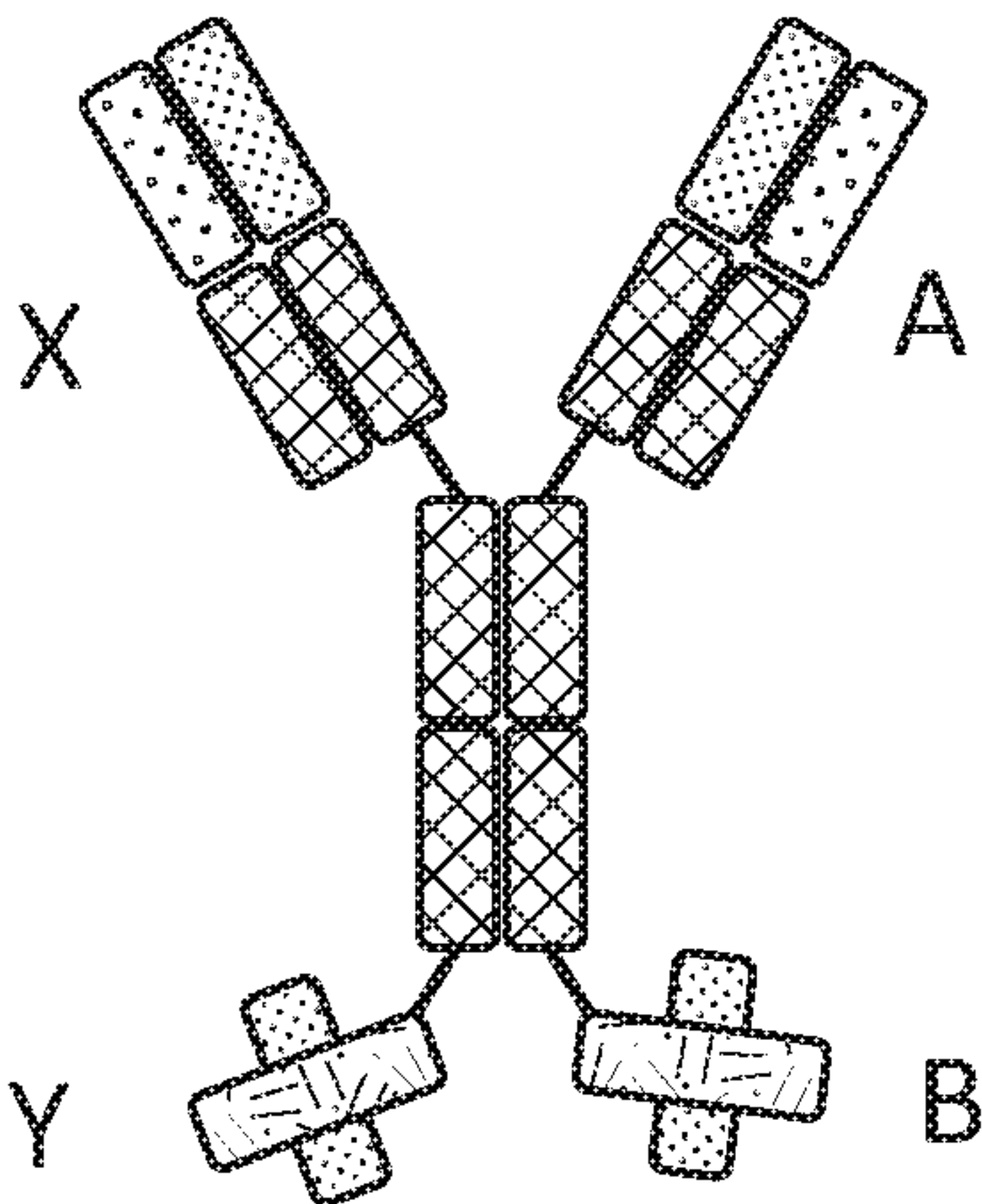


FIG. 1AA

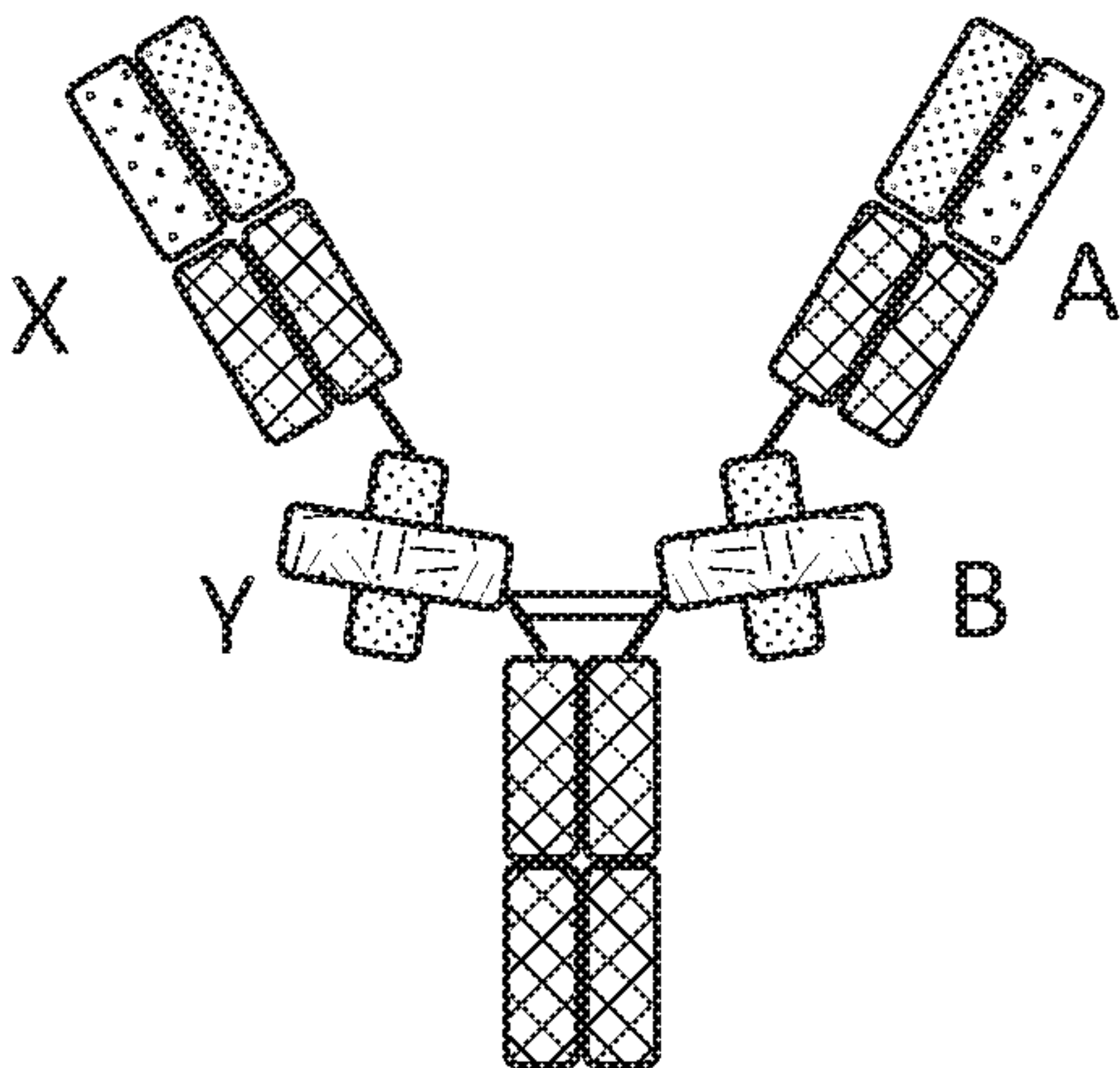


FIG. 1AB

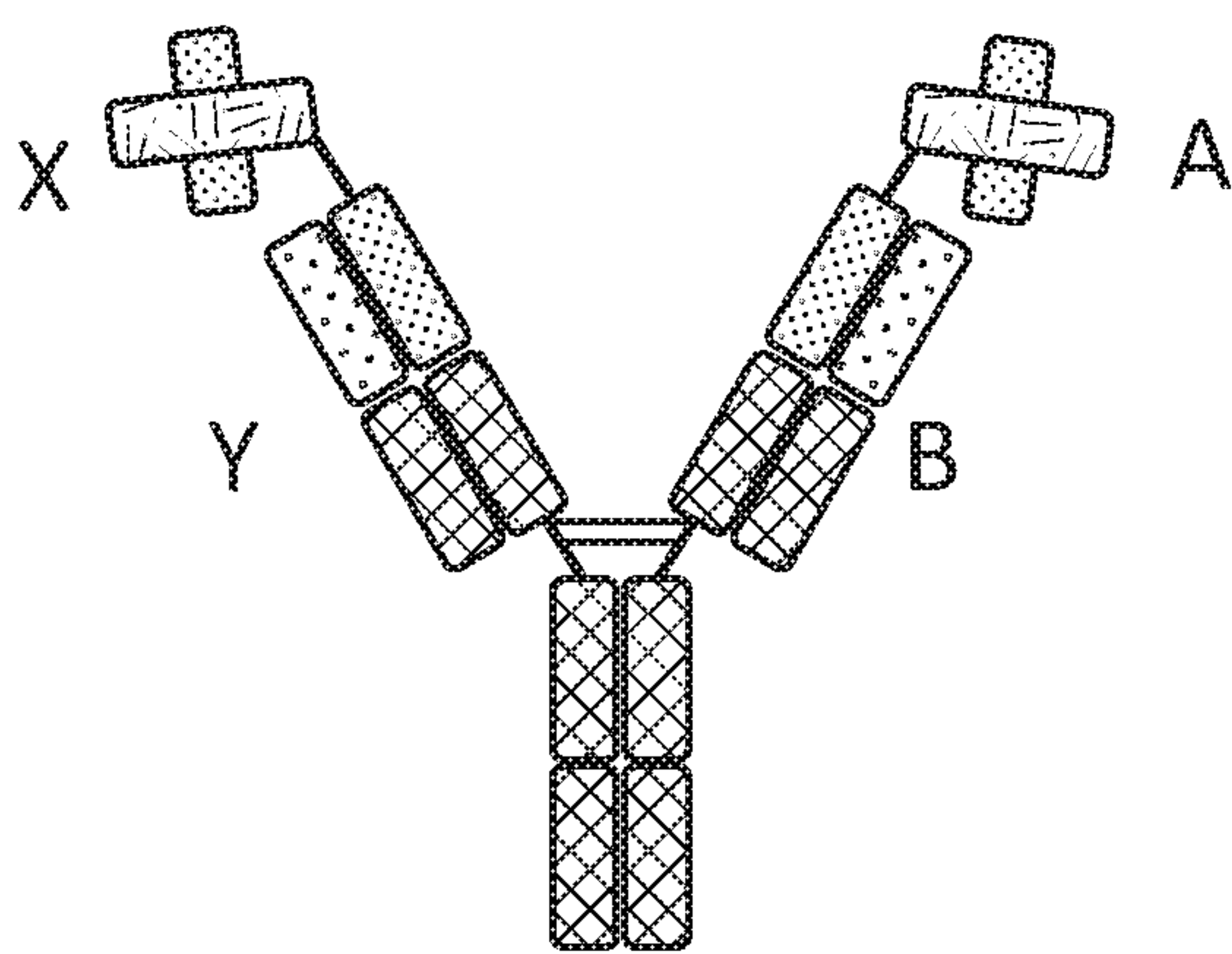


FIG. 1AC

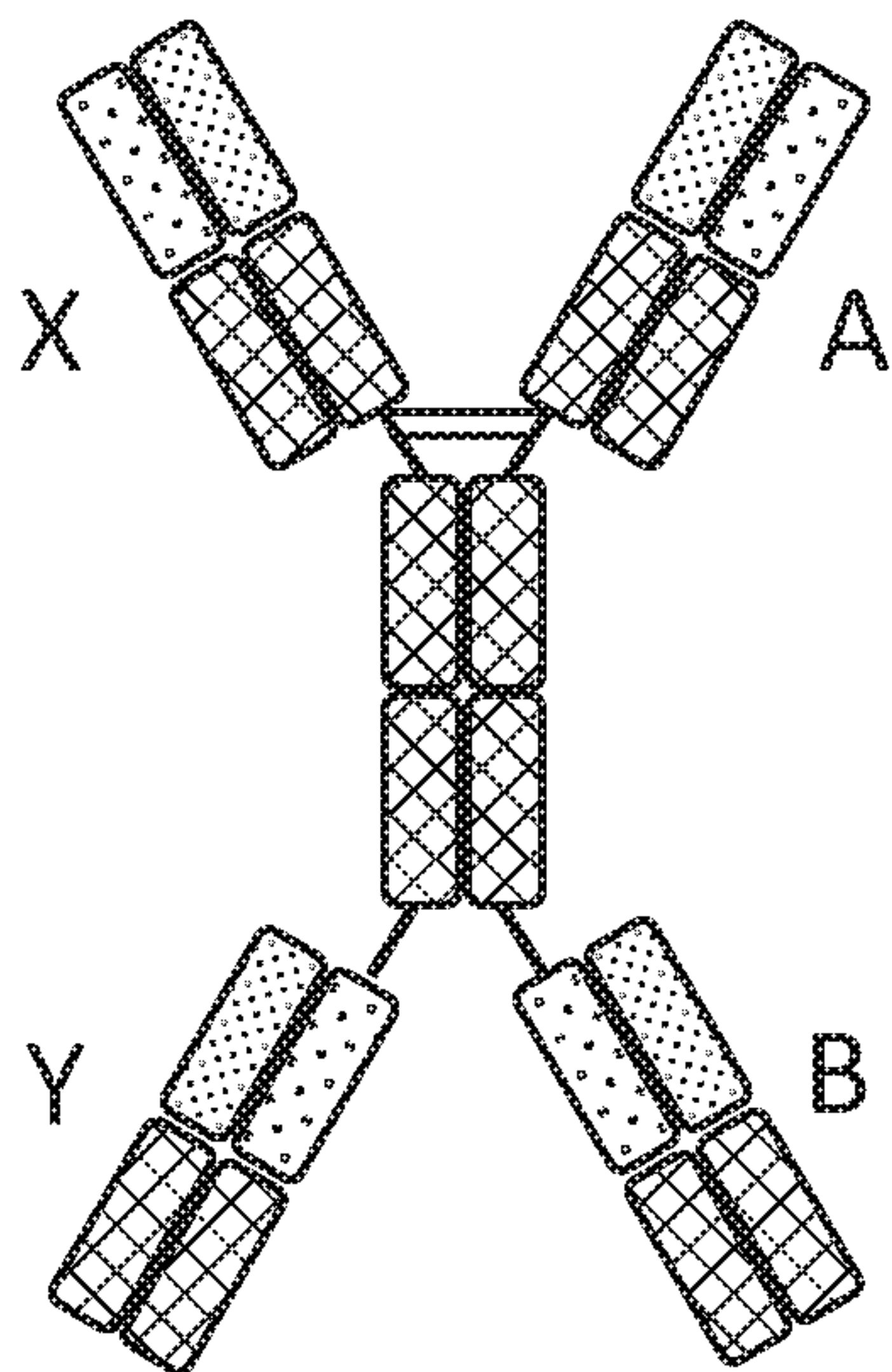


FIG. 1AD

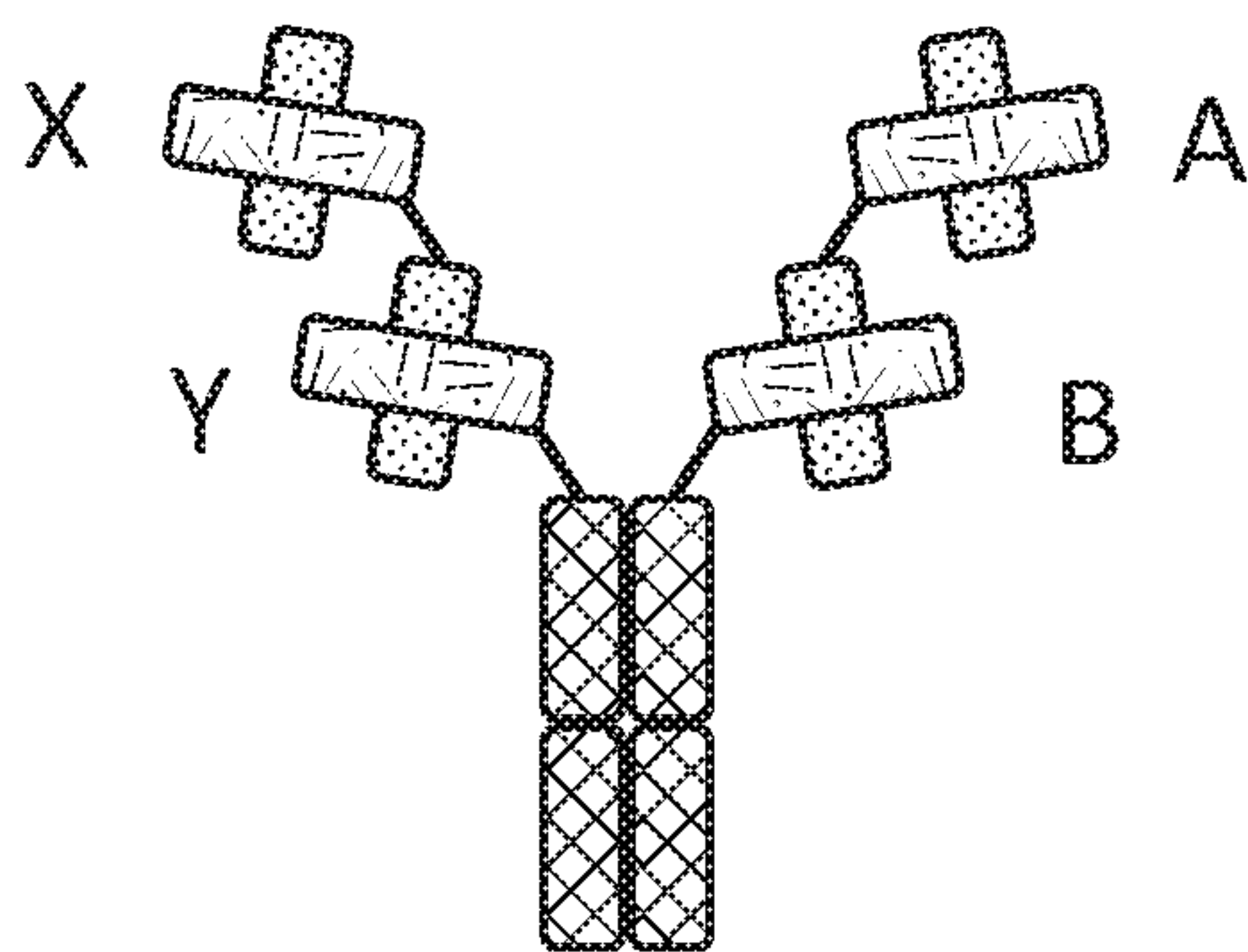


FIG. 1AE

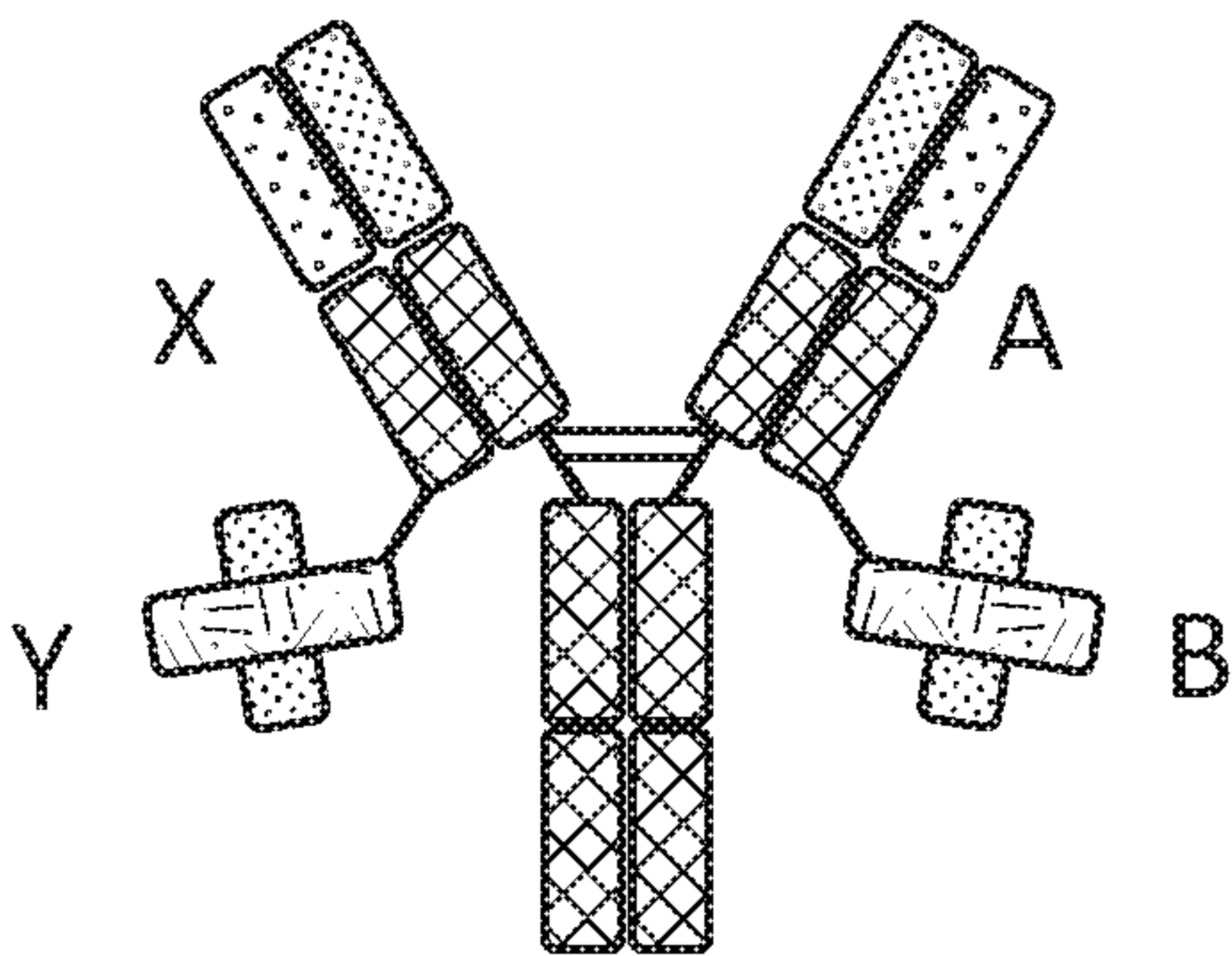


FIG. 1AF

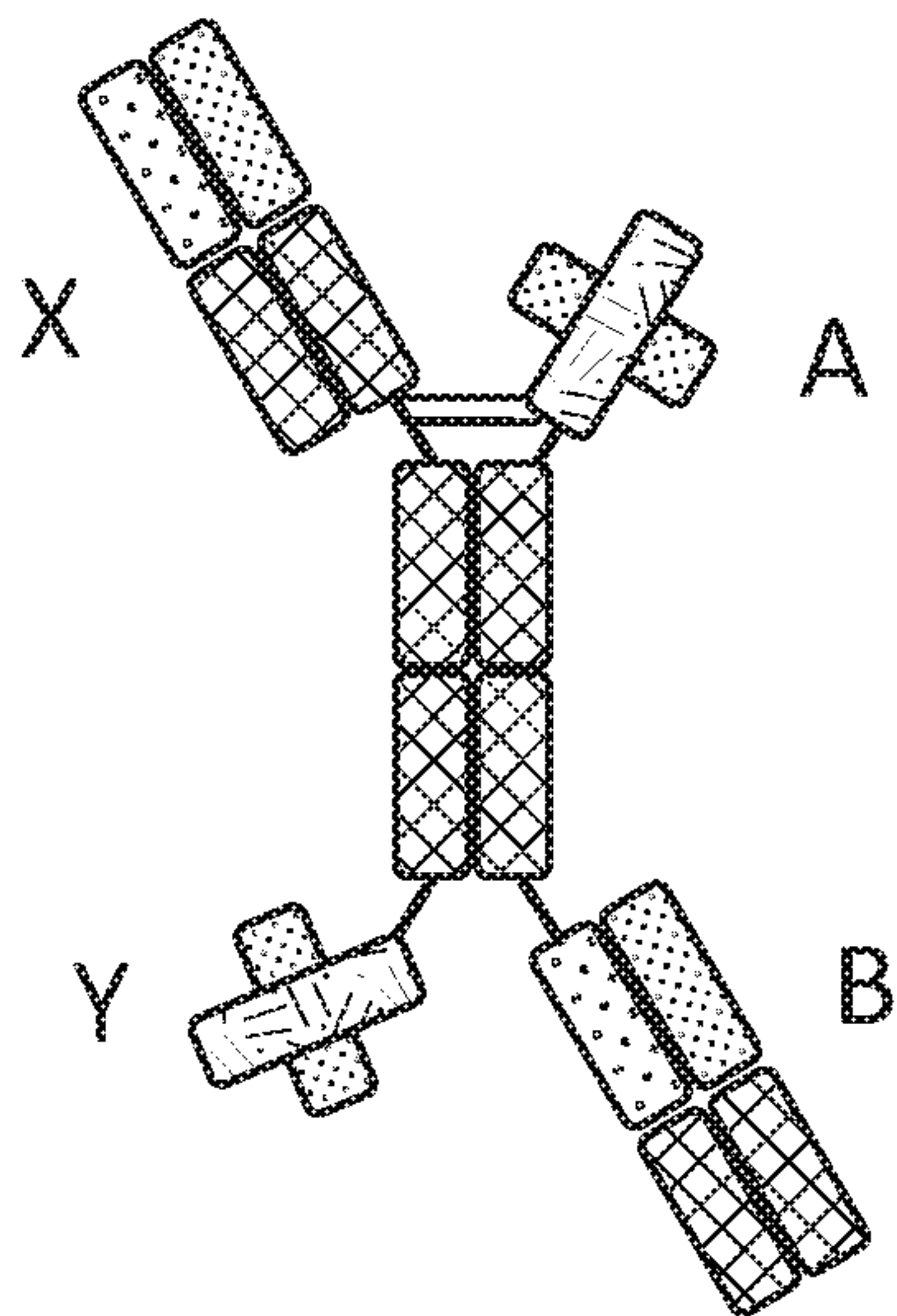


FIG. 1AG

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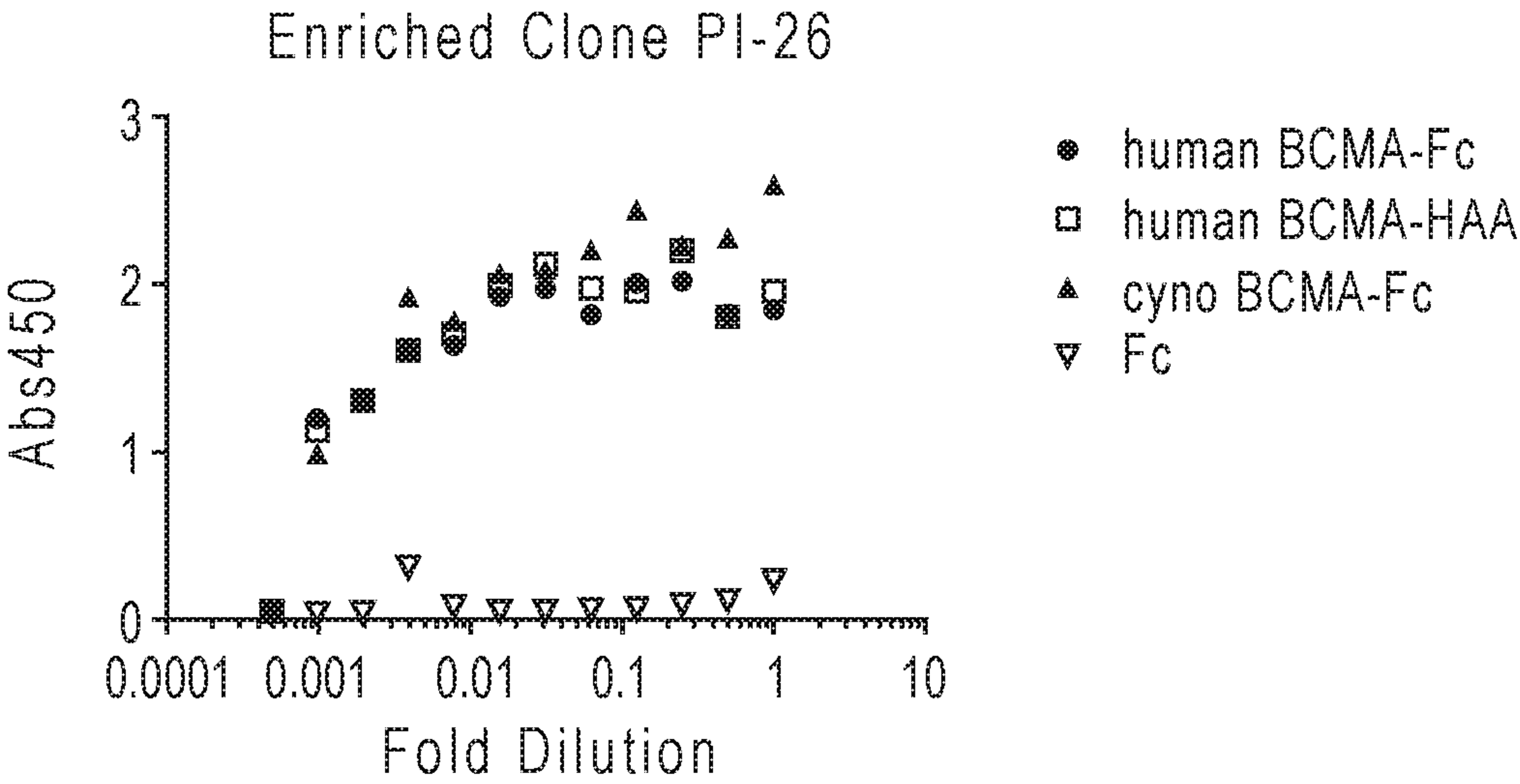


FIG. 2A

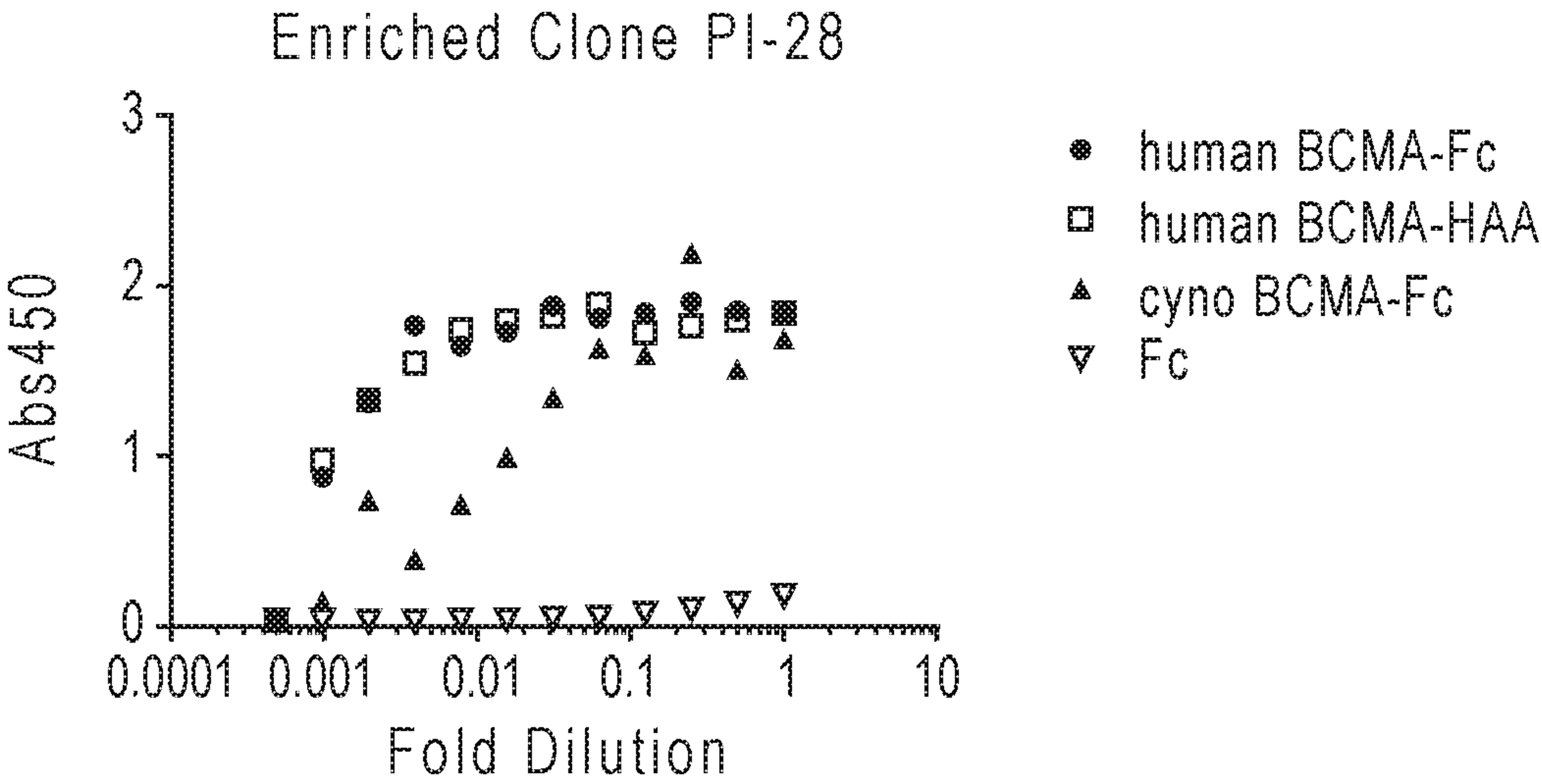


FIG. 2B

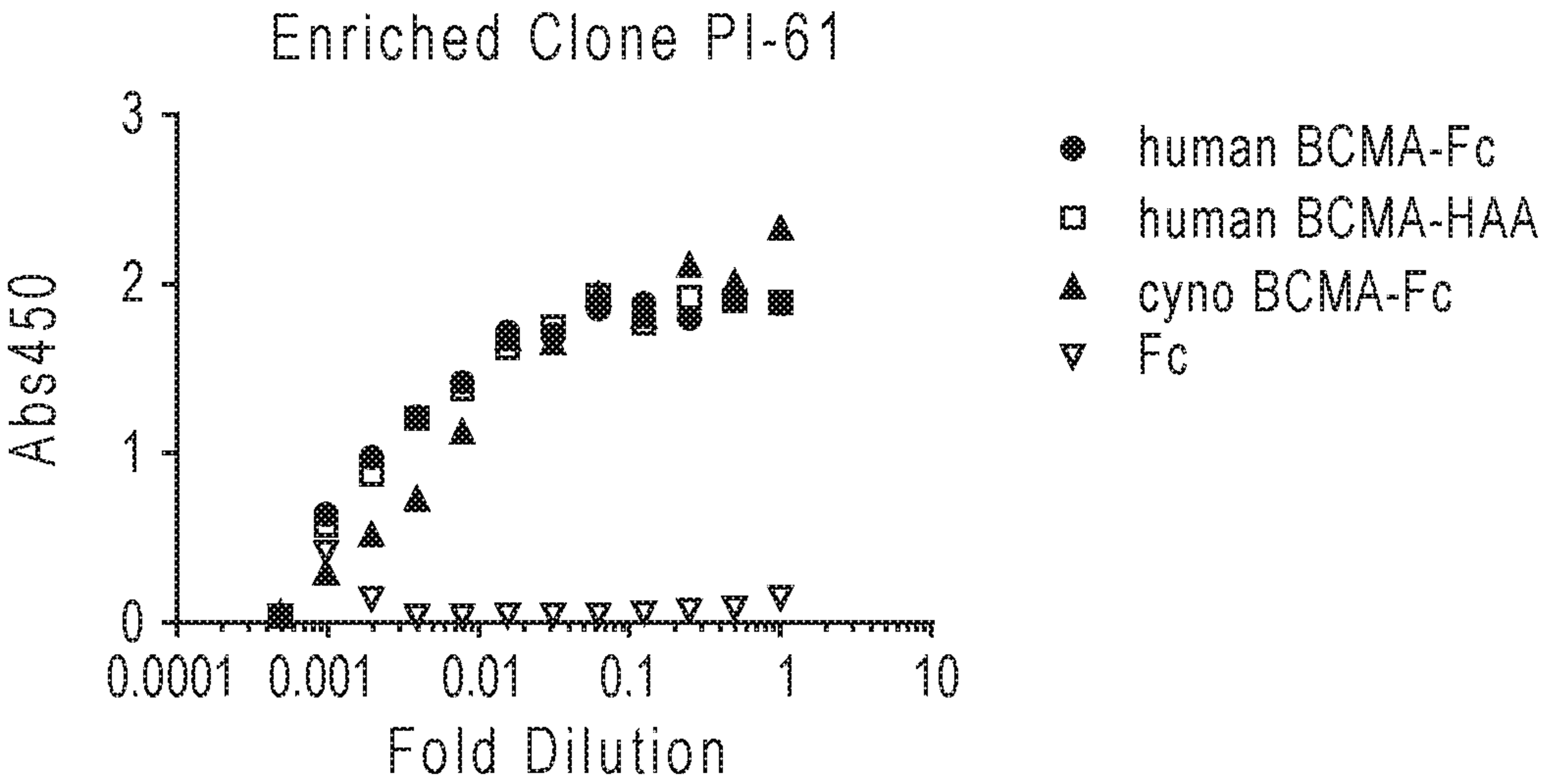


FIG. 2C

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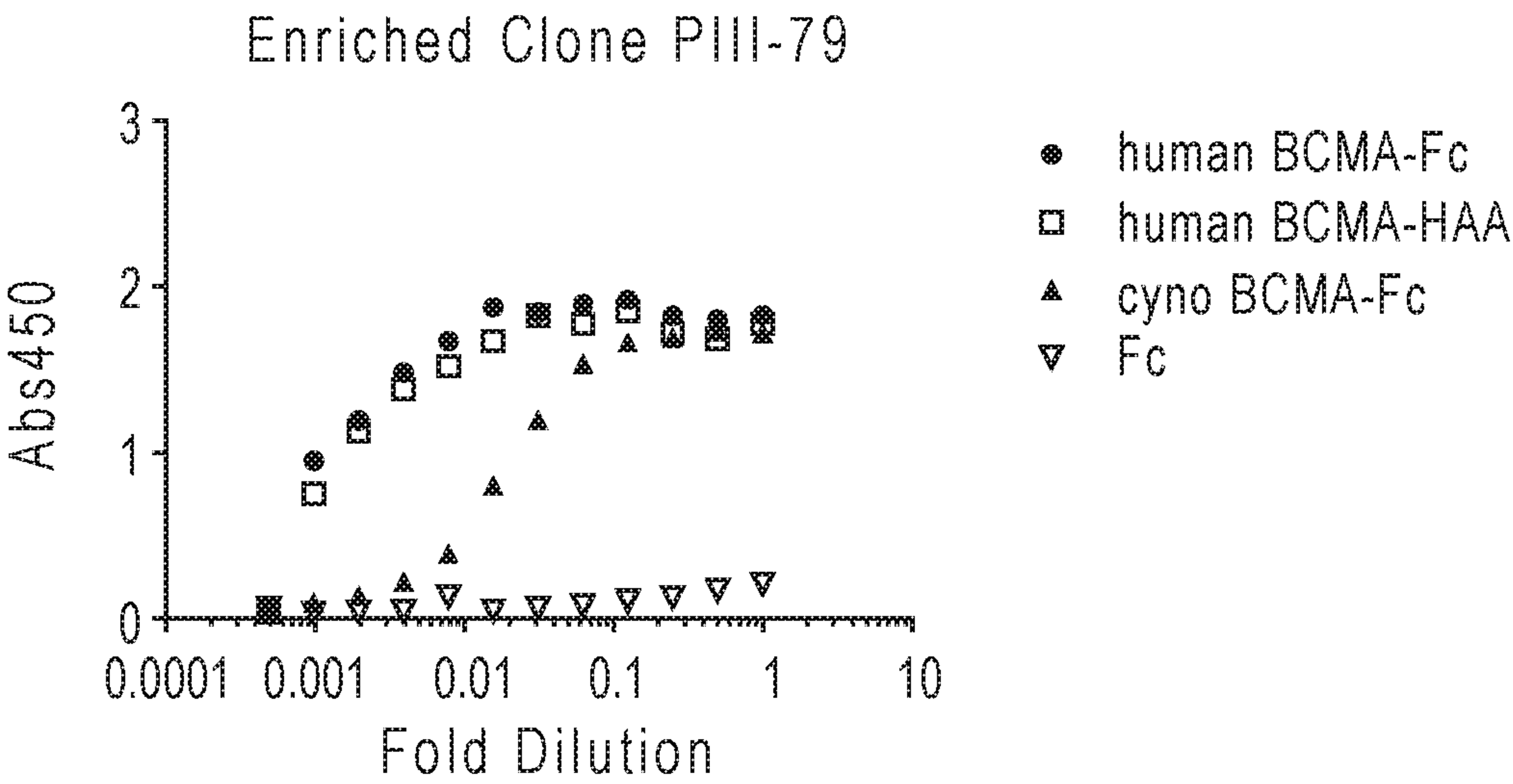


FIG. 2D

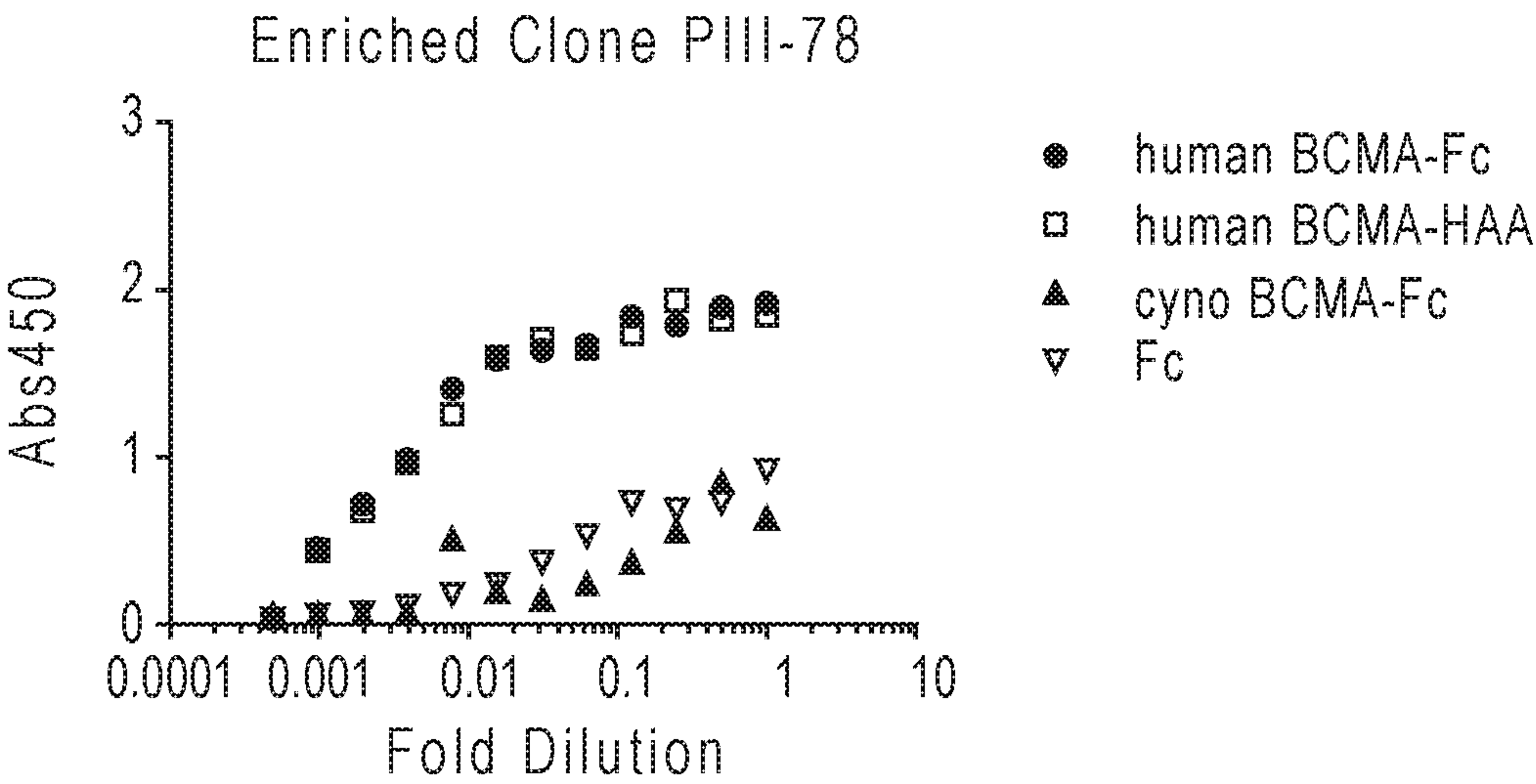


FIG. 2E

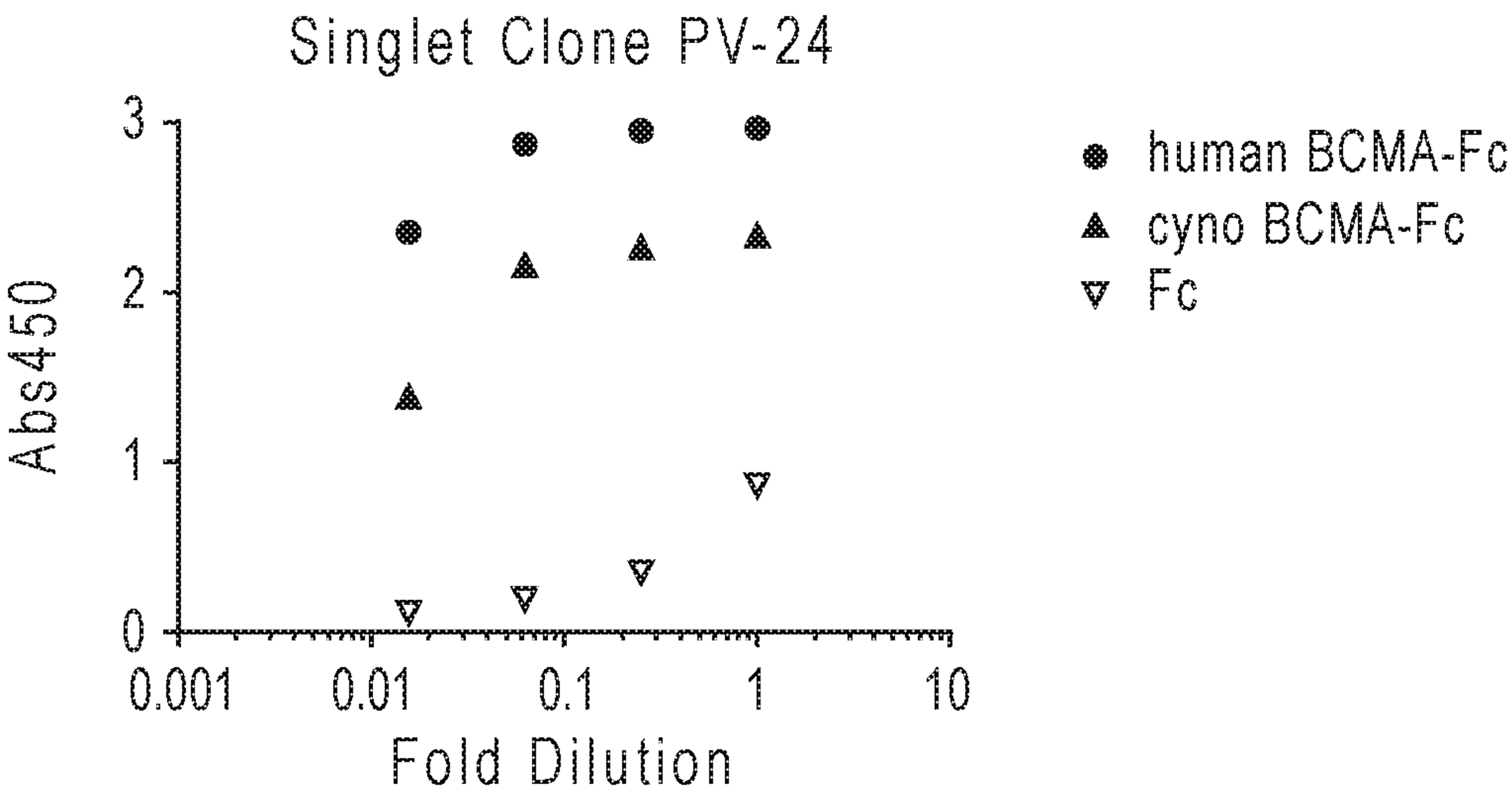


FIG. 2F

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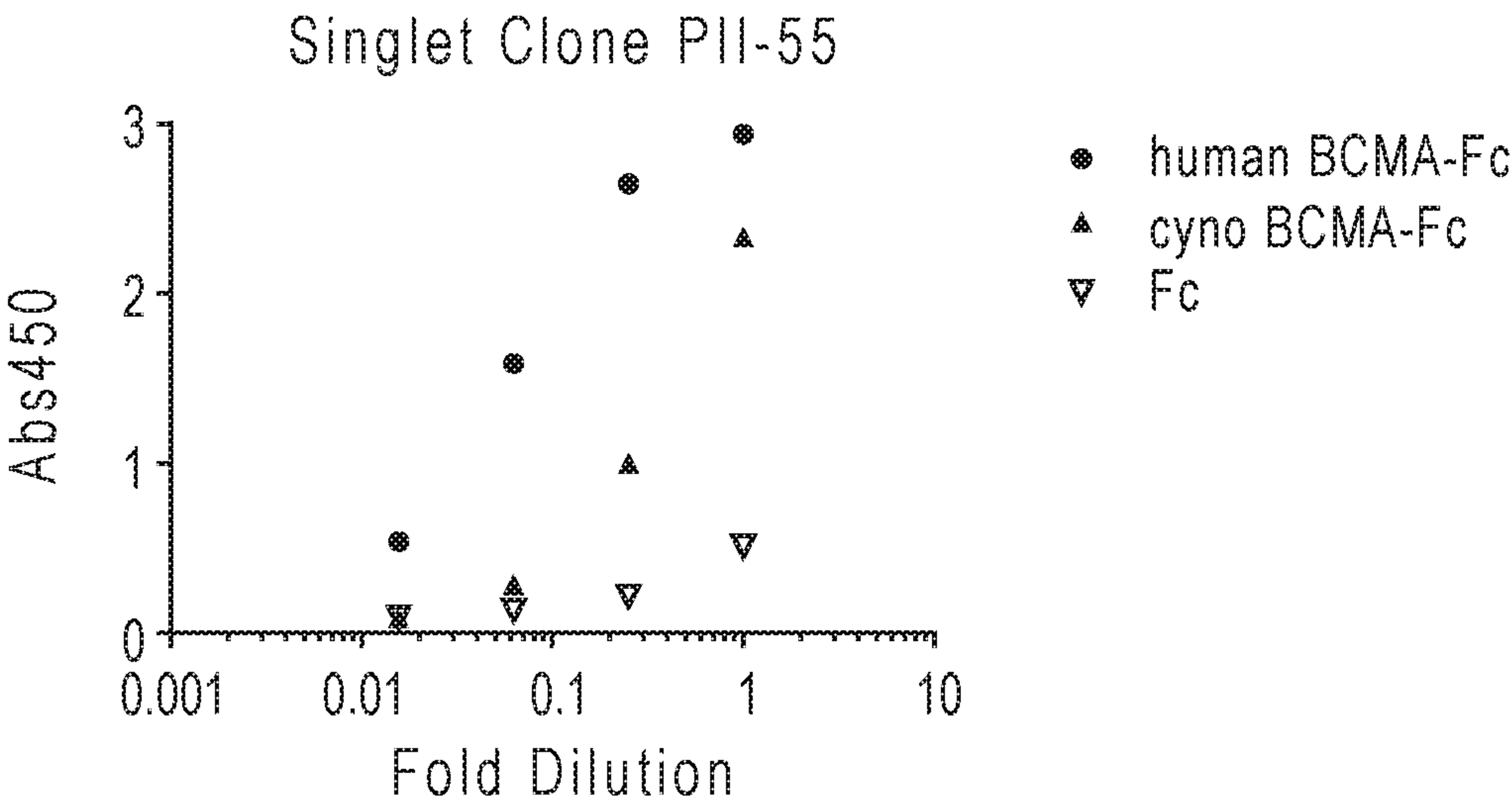


FIG. 2G

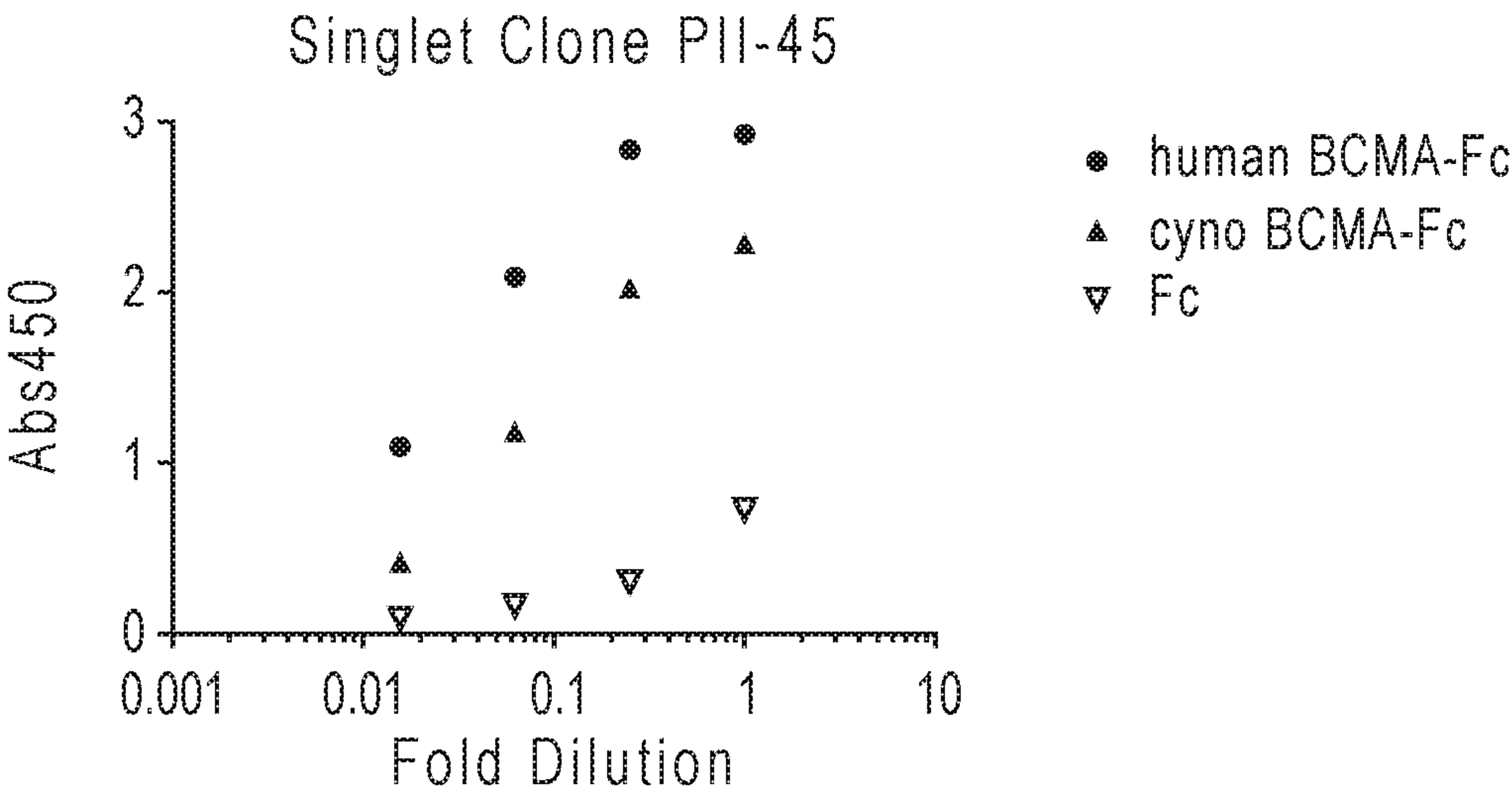


FIG. 2H

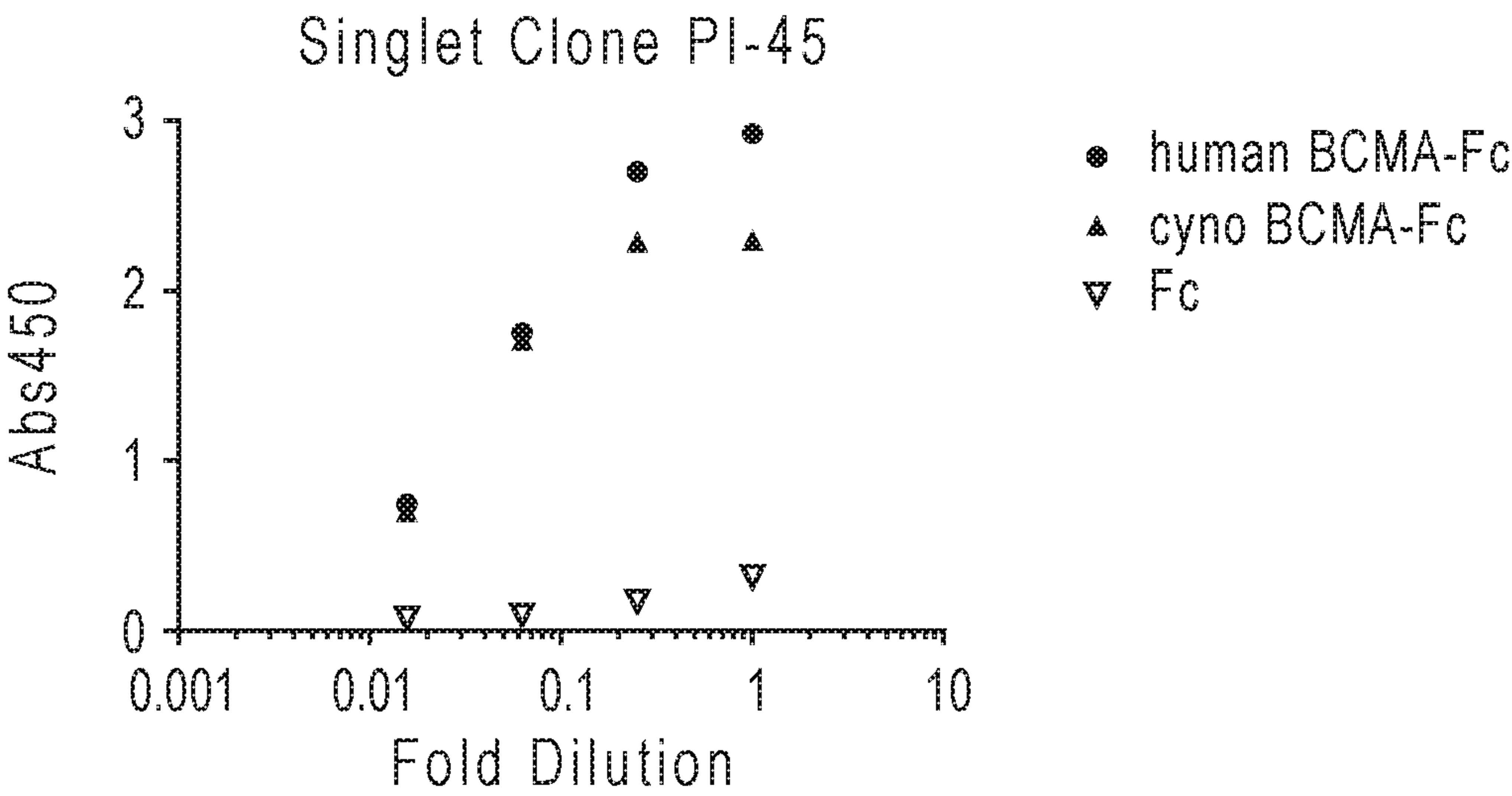


FIG. 2I

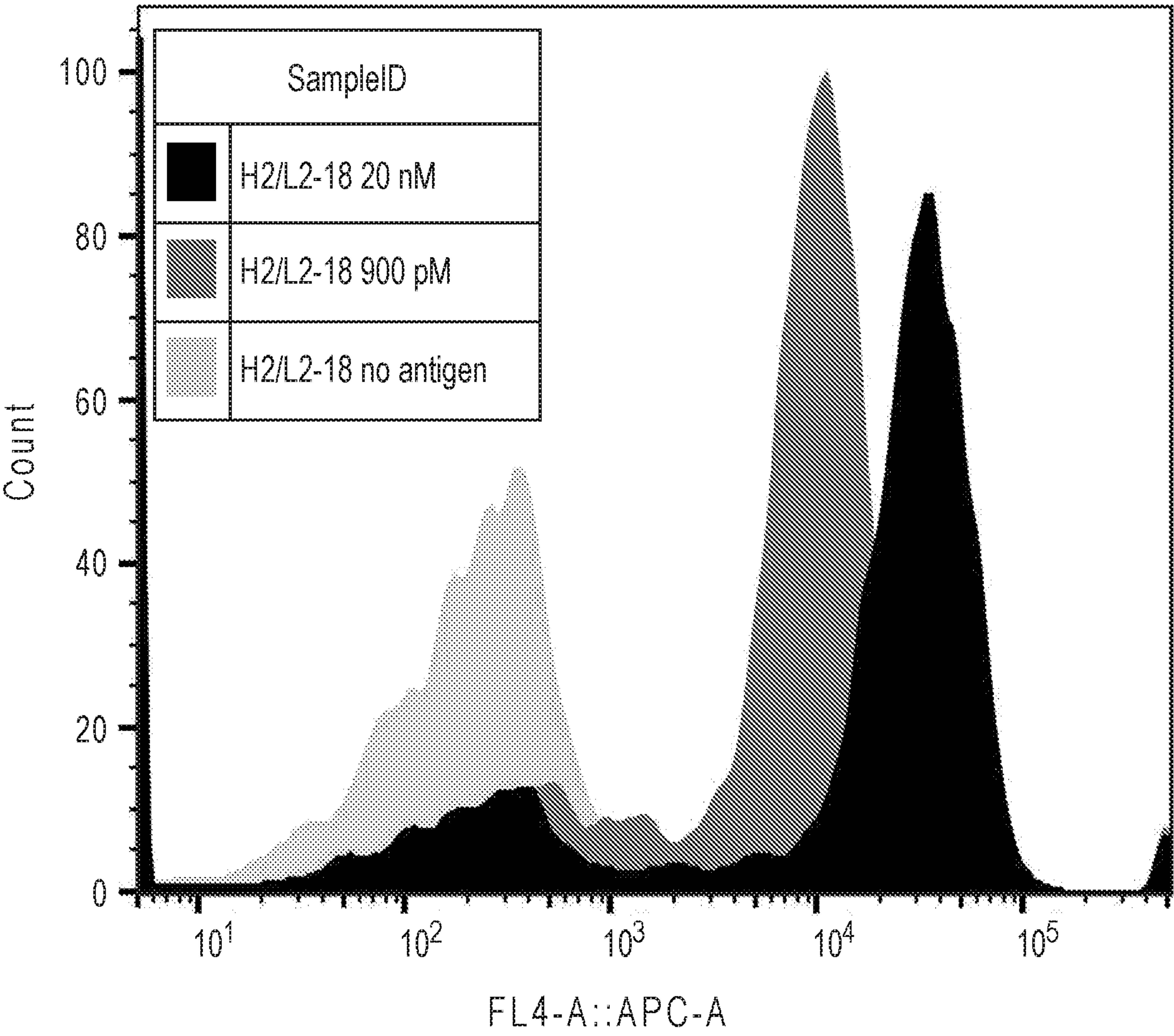


FIG. 3A

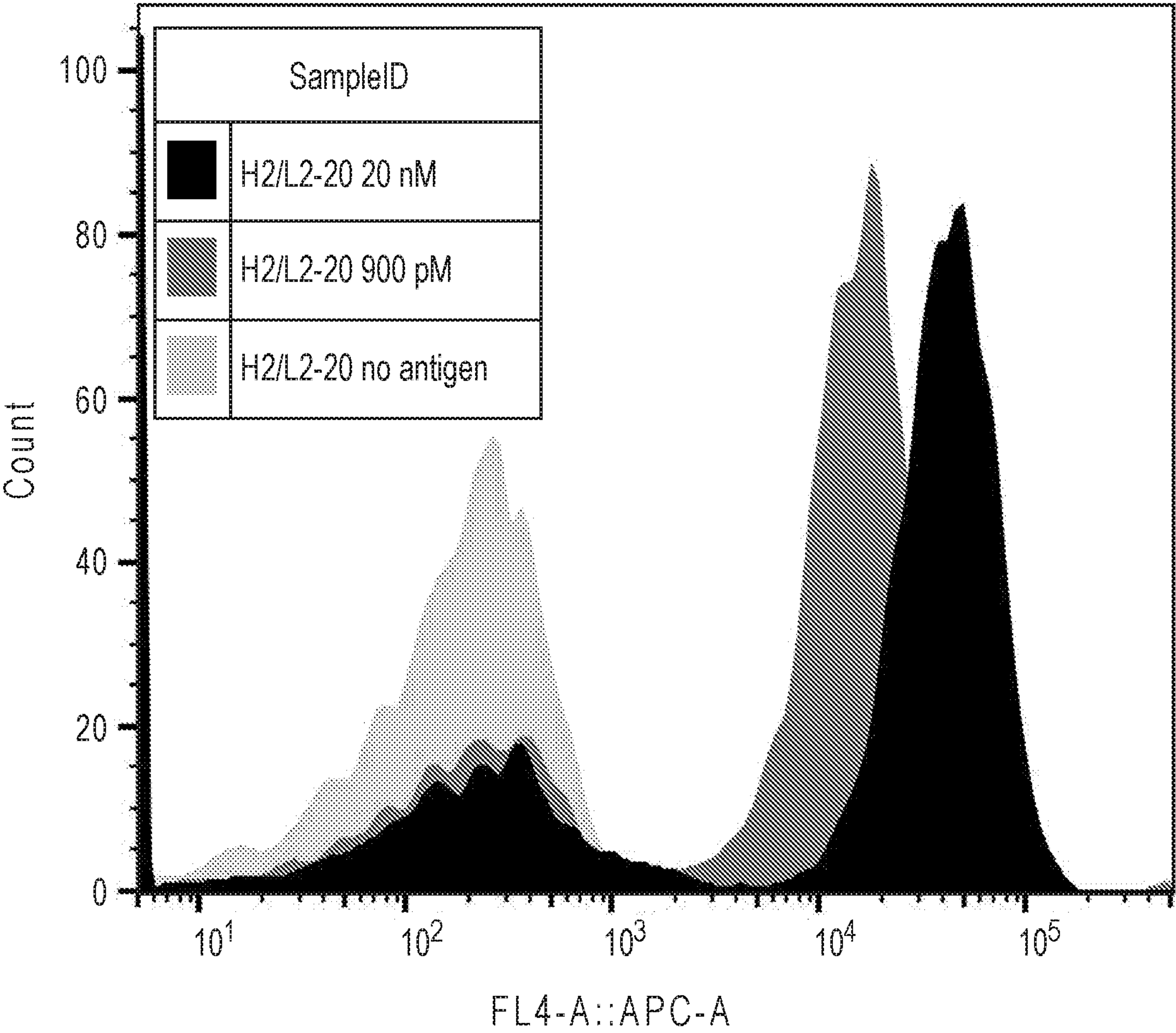


FIG. 3B

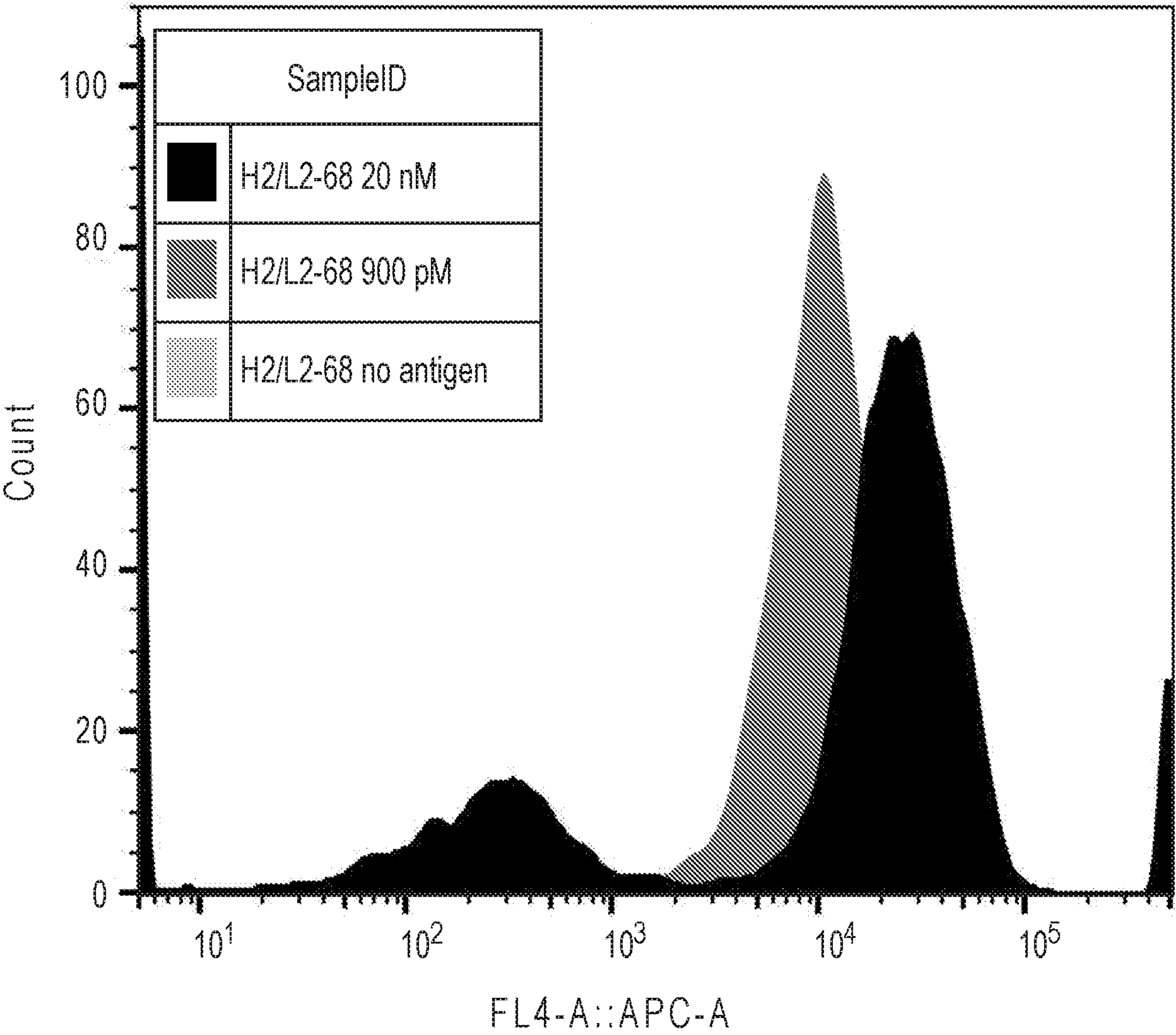


FIG. 3C

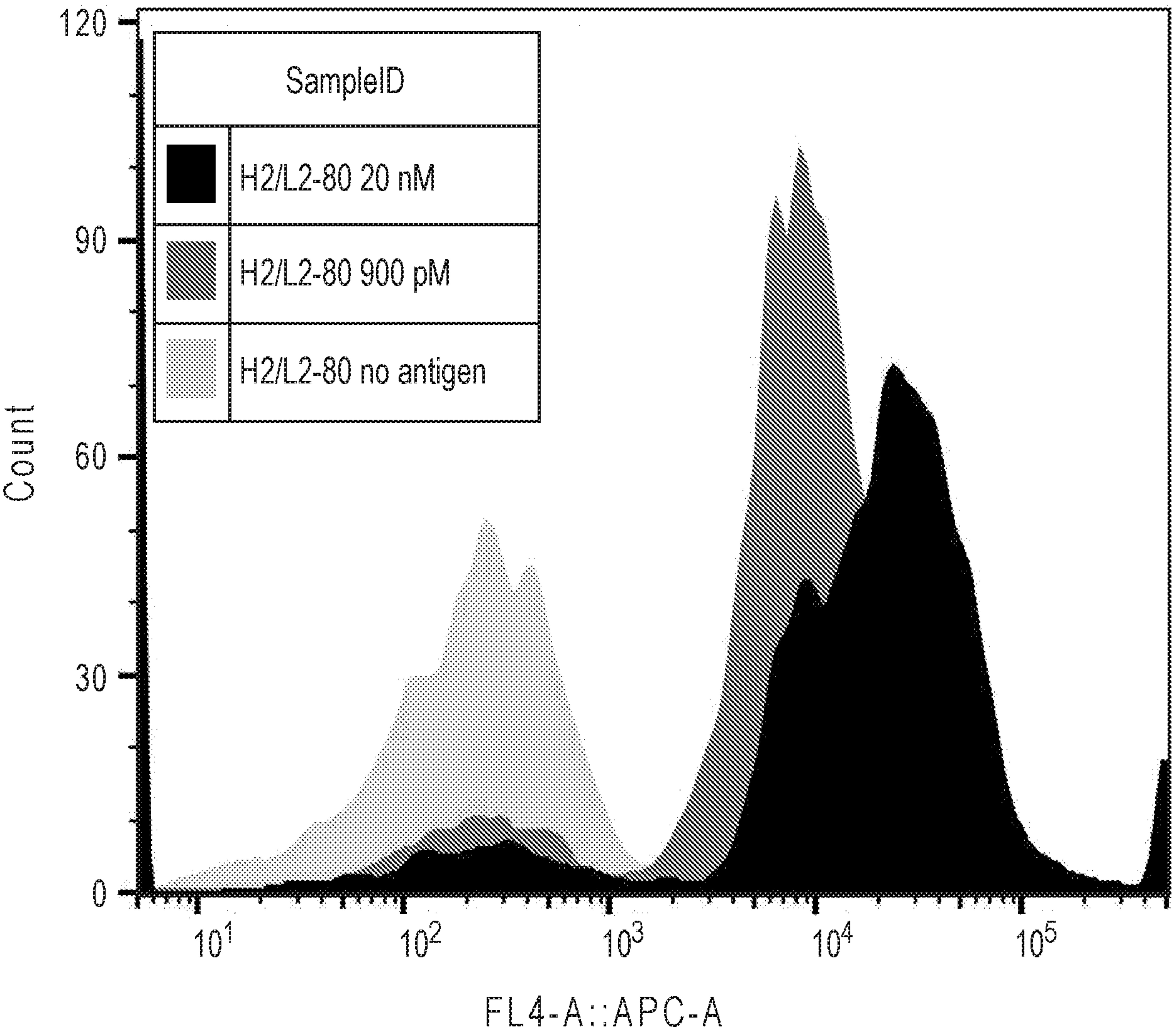


FIG. 3D

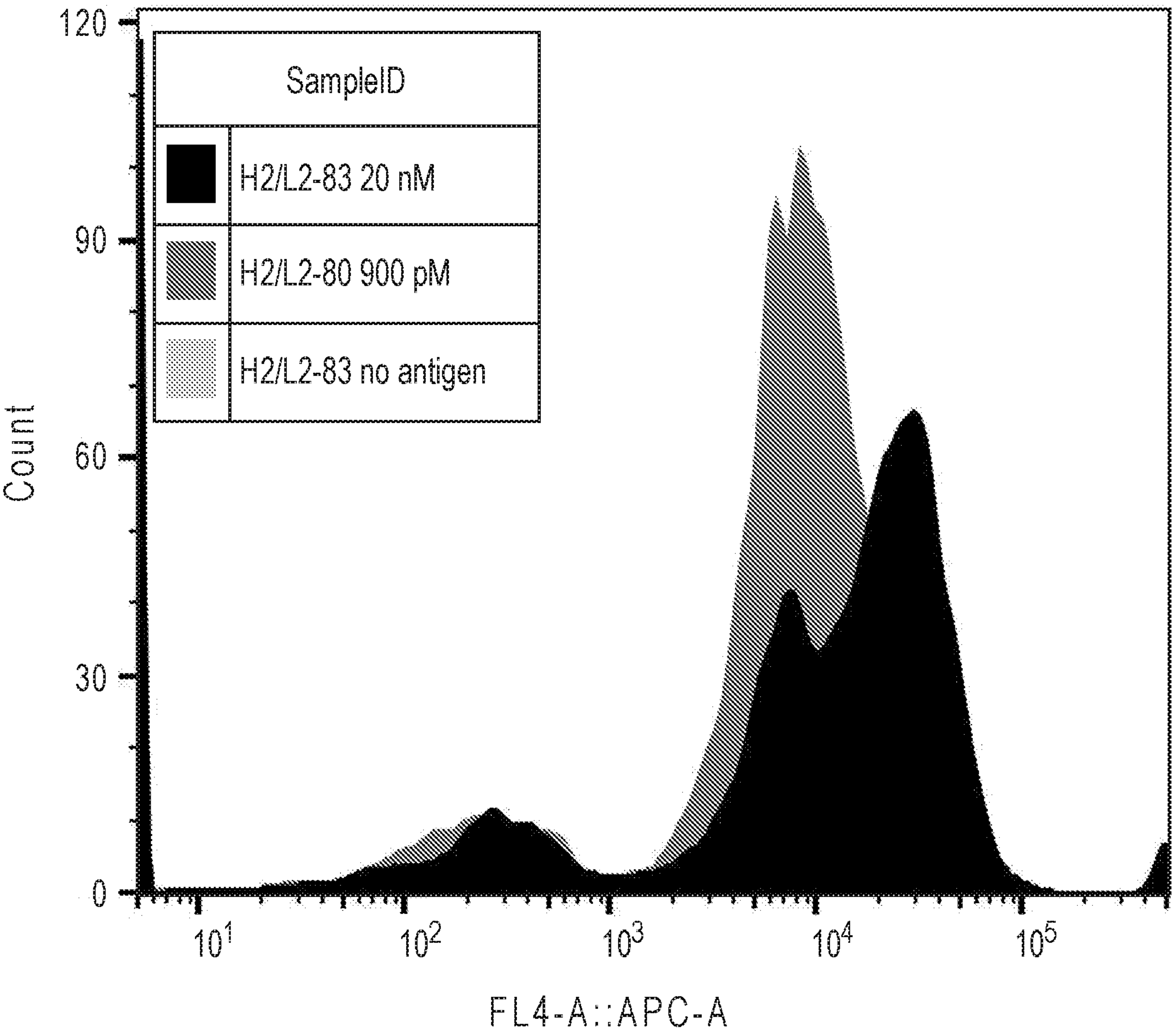


FIG. 3E

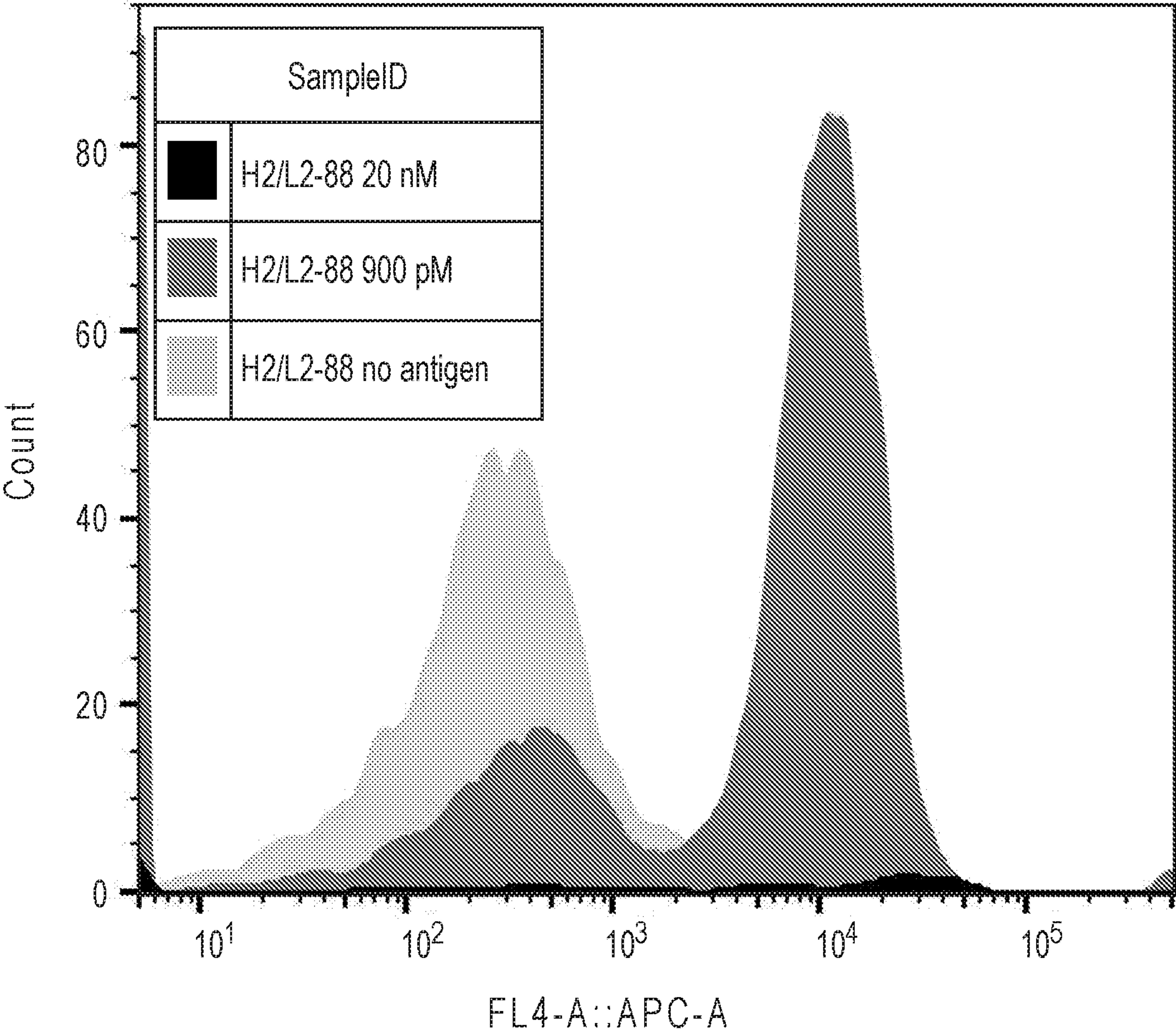


FIG. 3F

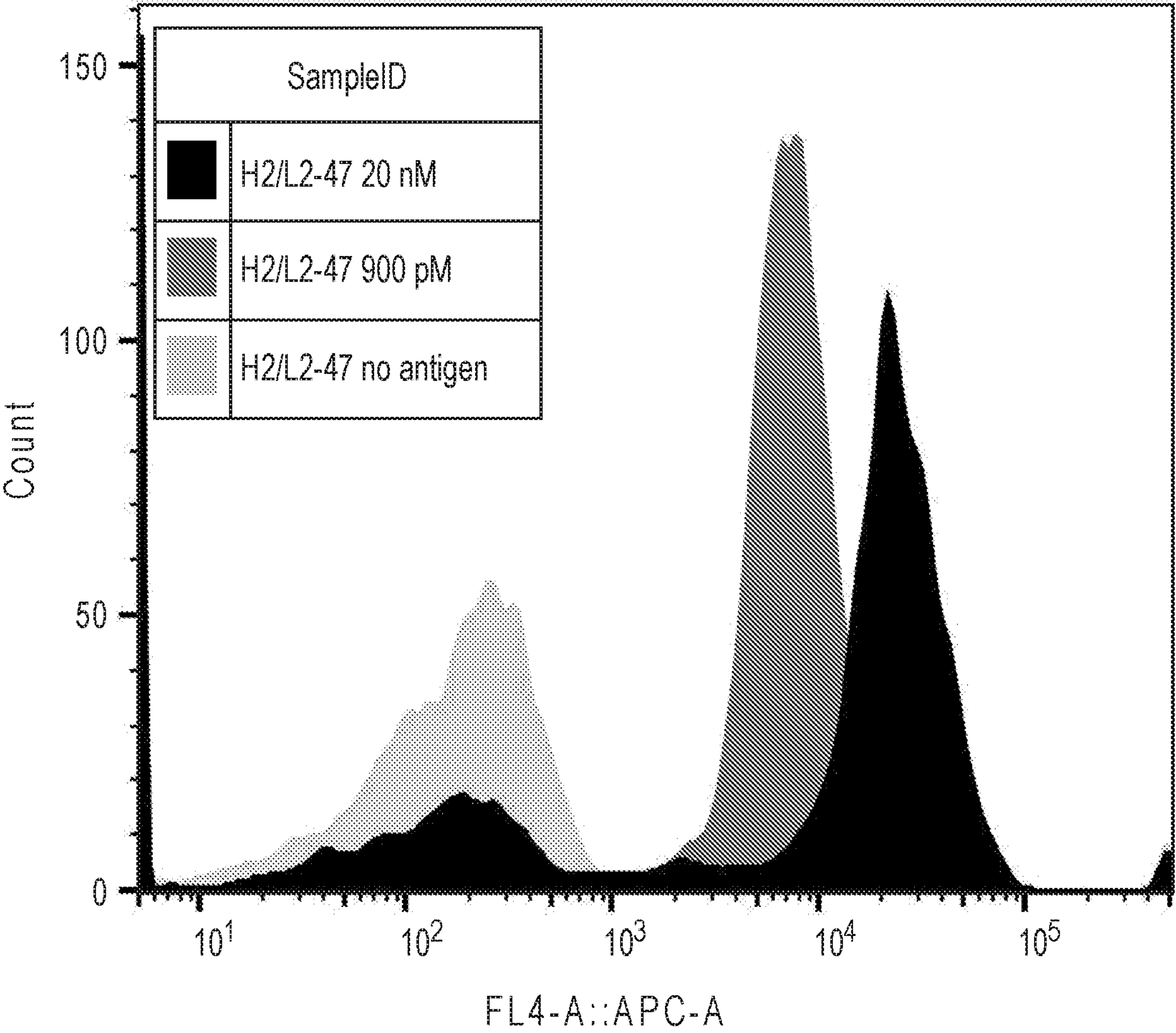


FIG. 3G

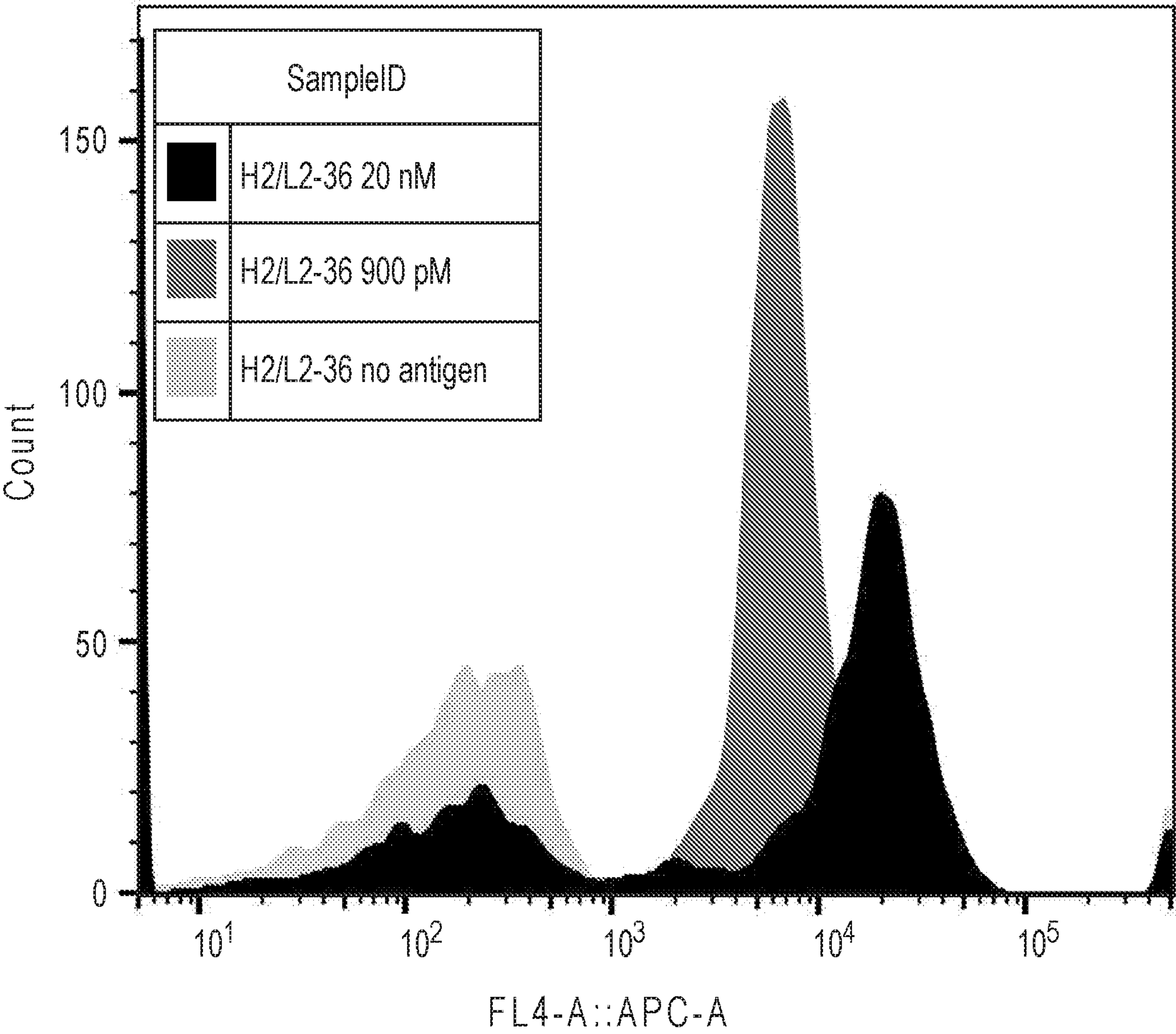


FIG. 3H

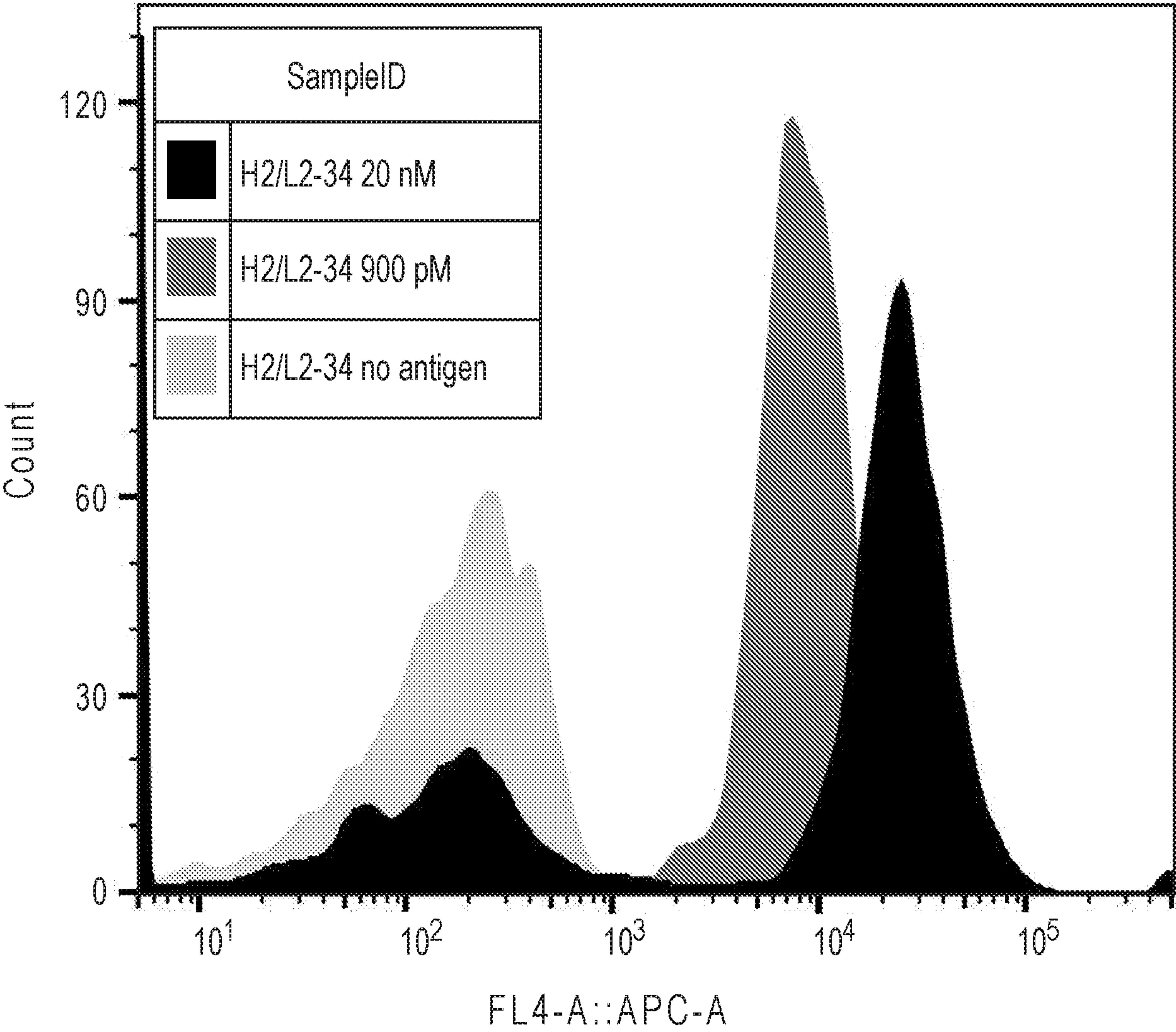


FIG. 3I

H2/L2 Library CDRH2																	
IMGT numbering	55	56	57	58	59	62	63	64	65	66	67	68	69	70	71	72	74
H2/L2-22	V	I	S	Y	H	G	S	N	K	Y	Y	A	D	S	V	K	G
H2/L2-88	V	I	S	Y	K	G	S	N	K	Y	Y	A	D	S	V	K	G
H2/L2-36	V	I	S	Y	K	G	S	N	K	Y	Y	A	D	S	V	K	G
H2/L2-34	V	I	S	Y	T	G	T	K	K	Y	Y	A	D	S	V	K	G
H2/L2-68	V	I	S	Y	R	G	F	N	K	Y	Y	A	D	S	V	K	G
H2/L2-18	V	I	S	Y	K	G	S	H	K	Y	Y	A	D	S	V	K	G
H2/L2-47	V	I	S	Y	K	G	S	N	K	Y	Y	A	D	S	V	K	G
H2/L2-20	V	I	S	Y	T	G	S	N	K	Y	Y	A	D	S	V	K	G
H2/L2-80	V	I	S	Y	T	G	S	N	K	Y	Y	A	D	S	V	K	G
H2/L2-83	V	I	S	Y	K	G	S	N	K	Y	Y	A	D	S	V	K	G
P1-61	V	I	S	Y	D	G	S	N	K	Y	Y	A	D	S	V	K	G

FIG. 4

H2/L2 Library CDRL2							
IMGT numbering	56	57	58	59	60	61	62
H2/L2-22	E	V	S	N	R	L	S
H2/L2-88	E	V	S	N	R	L	R
H2/L2-36	E	V	S	N	R	L	R
H2/L2-34	D	V	S	N	R	P	W
H2/L2-68	D	V	S	N	R	L	S
H2/L2-18	D	V	S	N	R	P	W
H2/L2-47	D	V	S	K	R	P	W
H2/L2-20	D	V	S	N	R	L	R
H2/L2-80	D	V	S	N	R	A	W
H2/L2-83	E	V	S	N	R	L	R
P1-61	D	V	S	N	R	P	S

FIG. 5

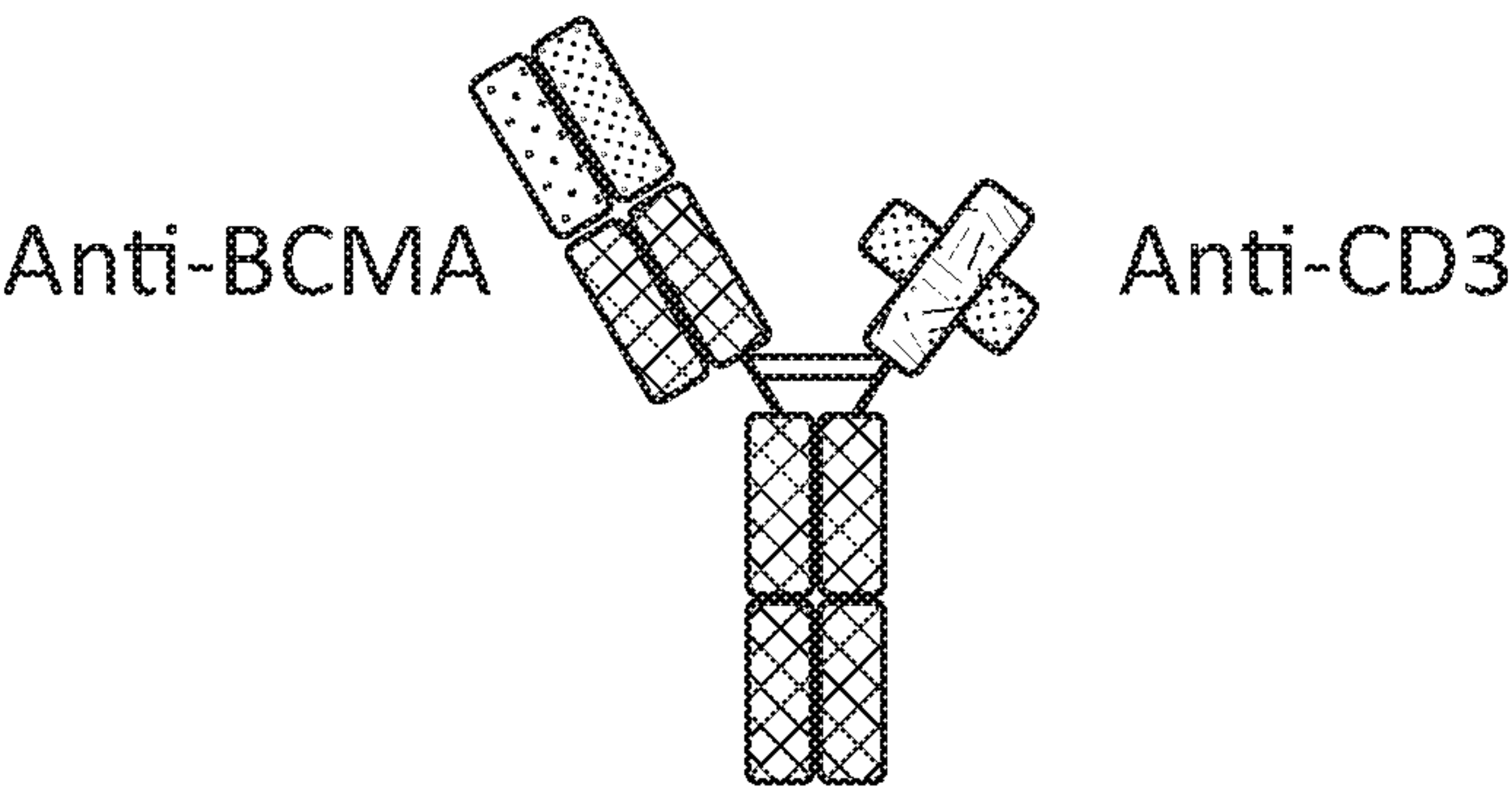


FIG. 6

H3.1 & H3.2 Library CDRH2																	
IMGT numbering	55	56	57	58	59	62	63	64	65	66	67	68	69	70	71	72	74
H3-1	V	I	S	Y	D	D	A	H	K	Y	Y	A	D	S	V	K	G
H3-2	V	I	S	Y	N	D	L	N	K	Y	Y	A	D	S	V	K	G
H3-3	V	I	S	Y	S	G	S	N	K	Y	Y	A	D	S	V	K	G
H3-4	V	I	S	Y	D	D	A	H	K	Y	Y	A	D	S	V	K	G
H3-5	V	I	S	Y	T	G	A	N	K	Y	Y	A	D	S	V	K	G
H3-6	V	I	S	Y	D	D	A	H	K	Y	Y	A	D	S	V	K	G
H3-7	V	I	S	Y	T	G	S	N	K	Y	Y	A	D	S	V	K	G
H3-8	V	I	S	Y	D	D	A	H	K	Y	Y	A	D	S	V	K	G
H3-9	V	I	S	Y	D	D	A	H	K	Y	Y	A	D	S	V	K	G
H3-10	V	I	S	Y	N	D	L	N	K	Y	Y	A	D	S	V	K	G
H3-11	V	I	S	Y	N	D	A	N	K	Y	Y	A	D	S	V	K	G
H3-12	V	I	S	Y	D	E	S	N	K	Y	Y	A	D	S	V	K	G
H3-13	V	I	S	Y	D	D	A	H	K	Y	Y	A	D	S	V	K	G
H3-14	V	I	S	Y	D	D	A	H	K	Y	Y	A	D	S	V	K	G
H3-15	V	I	S	Y	D	D	A	N	K	Y	Y	A	D	S	V	K	G
P1-61	V	I	S	Y	D	G	S	N	K	Y	Y	A	D	S	V	K	G

FIG. 7

H3.1 & H3.2 Library CDRL2										
IMGT numbering	56	57	58	59	60	61	62	63	64	65
H3-1	E	V	S	N	R	L	R	G	V	S
H3-2	E	V	S	N	R	L	R	G	V	S
H3-3	E	V	S	N	R	L	R	G	V	S
H3-4	E	V	S	N	R	L	S	G	V	S
H3-5	E	V	S	N	R	L	R	G	V	S
H3-6	E	V	S	N	R	L	R	G	V	S
H3-7	E	V	S	N	R	L	R	G	V	S
H3-8	E	V	S	N	R	L	R	G	V	S
H3-9	E	V	S	N	R	L	R	G	V	S
H3-10	E	V	S	N	R	L	R	G	V	S
H3-11	E	V	S	N	R	L	R	G	V	S
H3-12	E	V	S	N	R	L	R	G	V	S
H3-13	E	V	S	N	R	L	S	G	V	S
H3-14	E	V	S	N	R	D	G	G	V	S
H3-15	E	V	S	N	R	D	S	G	V	S
P1-61	D	V	S	N	R	P	S	G	V	S

FIG. 8

H3.1 & H3.2 Library CDRH3														
IMGT numbering	107	108	109	110	111	111a	111b	111c	112	113	114	115	116	117
H3-1	S	G	Y	A	L	H	D	Q	Y	K	P	V	D	V
H3-2	S	G	Y	A	L	H	D	F	Q	D	P	T	D	V
H3-3	S	G	Y	A	L	H	D	Q	Y	K	P	V	D	V
H3-4	S	G	Y	A	L	H	D	Q	Y	K	P	V	D	V
H3-5	S	G	Y	N	L	H	D	D	Y	Y	G	L	D	V
H3-6	S	G	Y	A	L	H	D	Q	Y	K	P	V	D	V
H3-7	S	G	Y	E	F	H	E	D	Y	Y	G	L	D	V
H3-8	S	G	Y	A	L	H	D	Q	Y	K	P	V	D	V
H3-9	S	G	Y	A	L	H	D	Q	Y	K	P	V	D	V
H3-10	S	G	Y	E	F	Q	G	D	Y	Y	G	L	D	V
H3-11	S	G	Y	E	L	R	D	D	Y	Y	G	L	D	V
H3-12	S	G	Y	E	V	D	Q	D	Y	Y	G	L	D	V
H3-13	S	G	Y	A	L	H	D	Q	Y	K	P	V	D	V
H3-14	S	G	Y	A	L	H	D	Q	Y	K	P	V	D	V
H3-15	S	G	Y	A	Y	D	G	D	Y	Y	G	L	D	V
P1-61	S	G	Y	A	H	H	D	D	Y	Y	G	L	D	V

FIG. 9

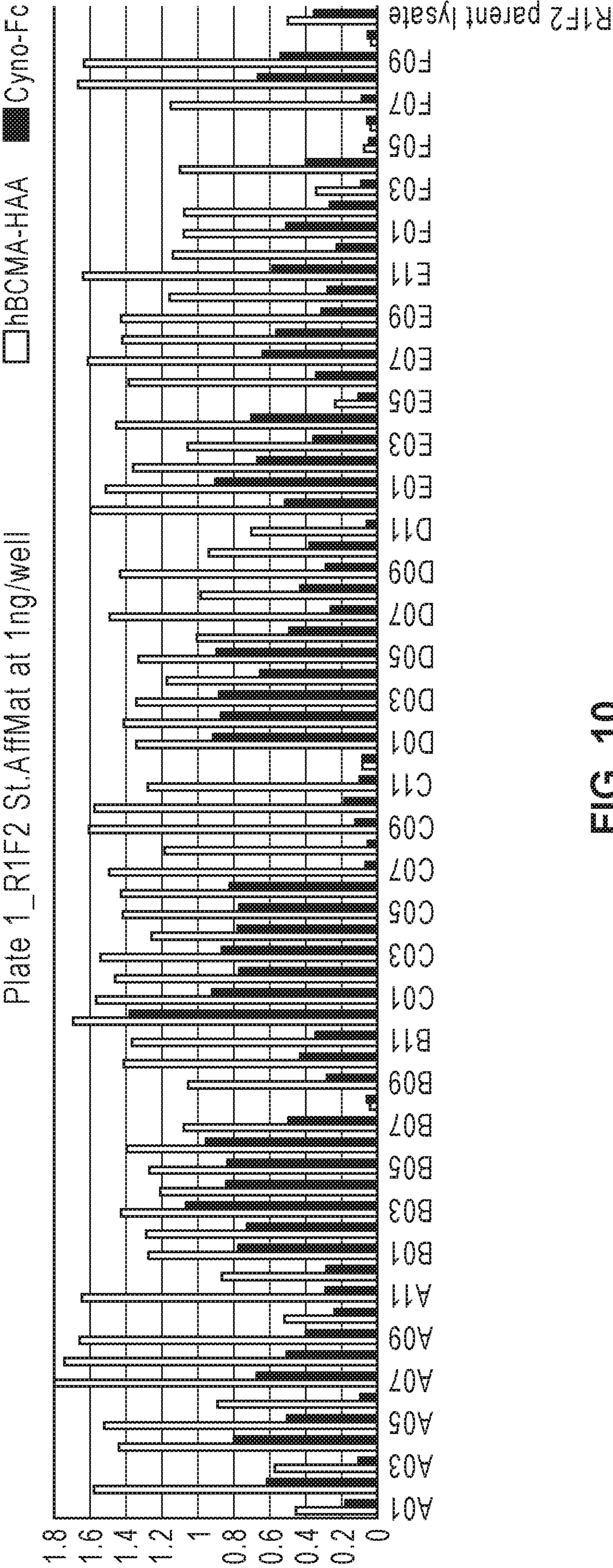


FIG. 10

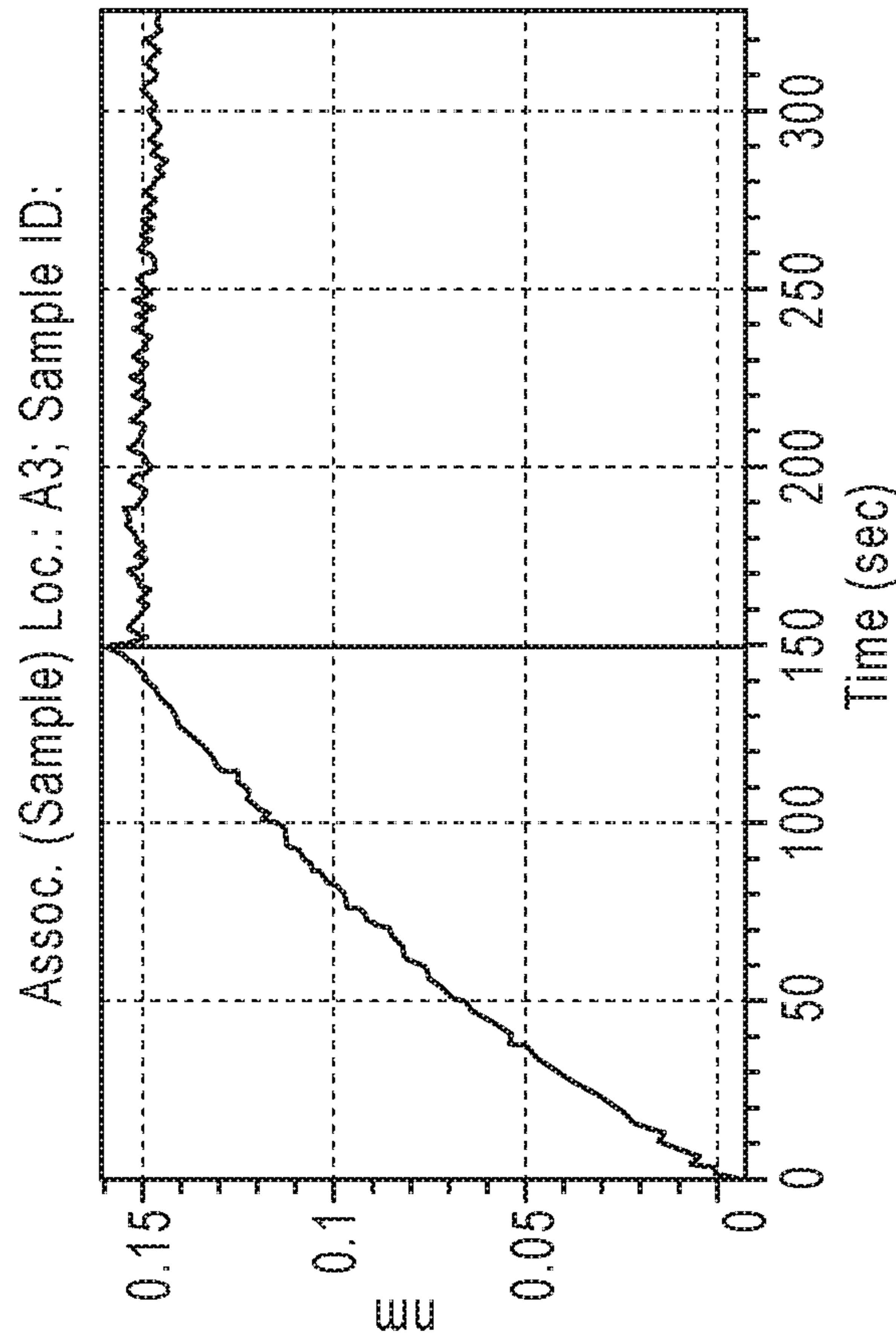


FIG. 11A

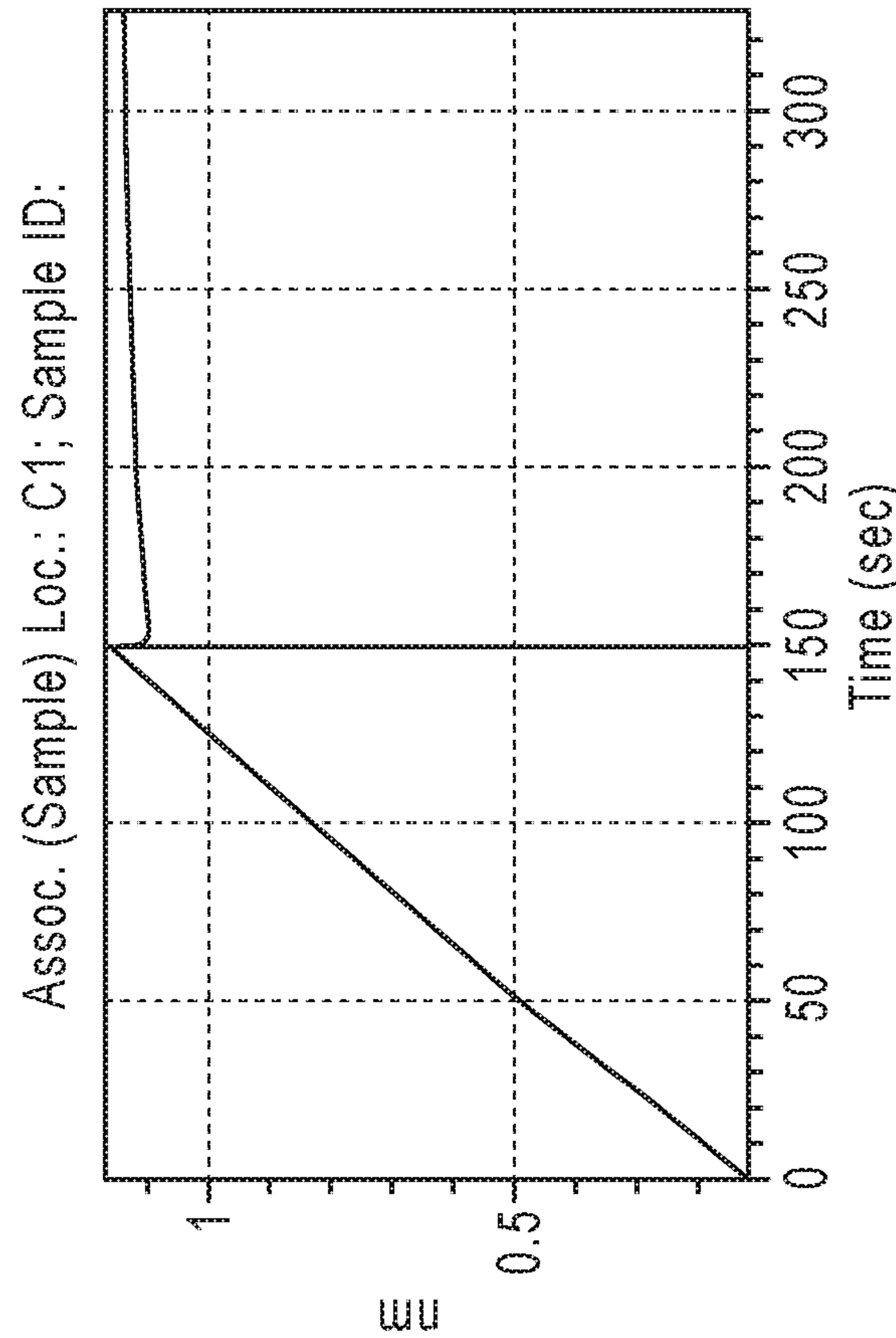


FIG. 11B

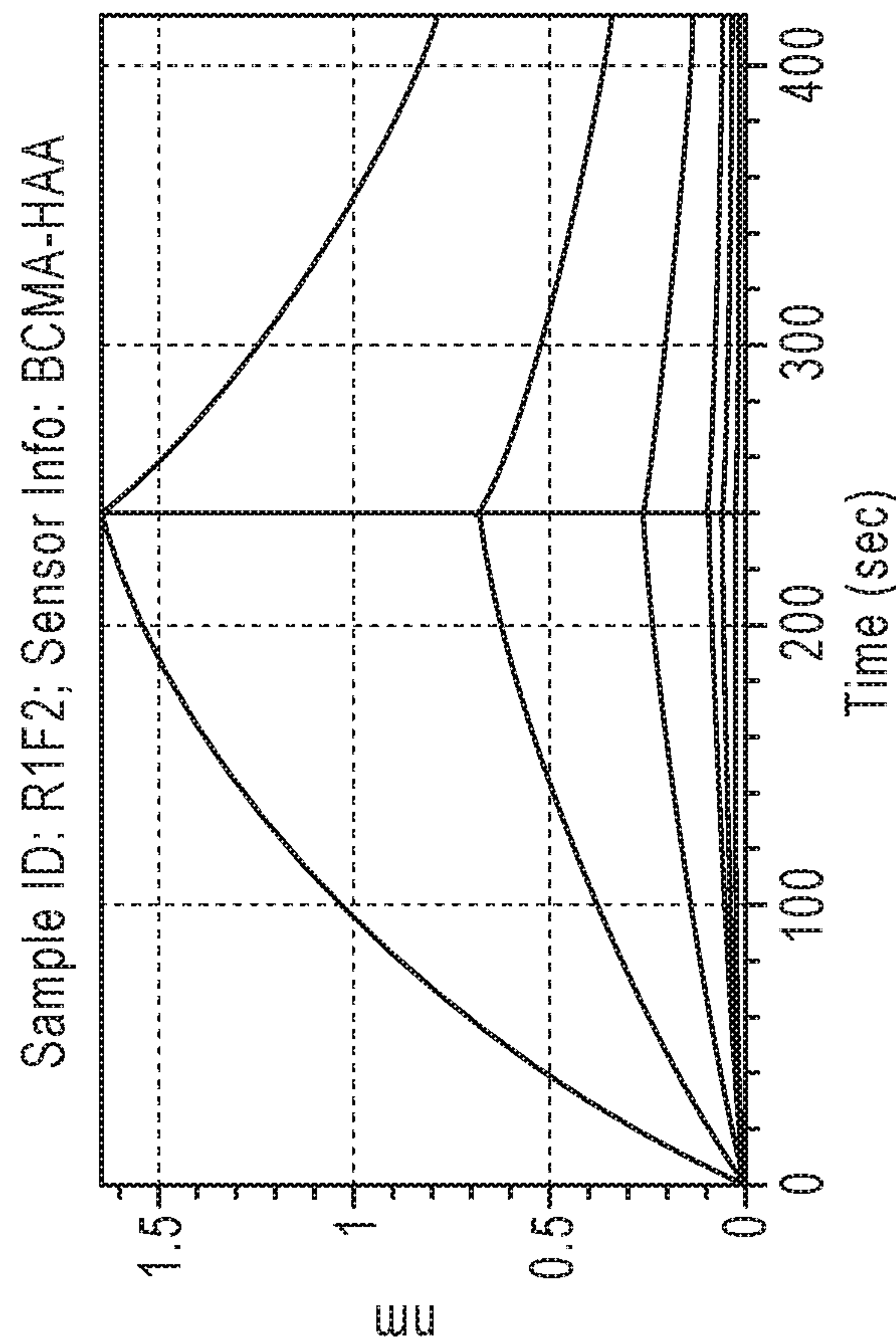


FIG. 11C

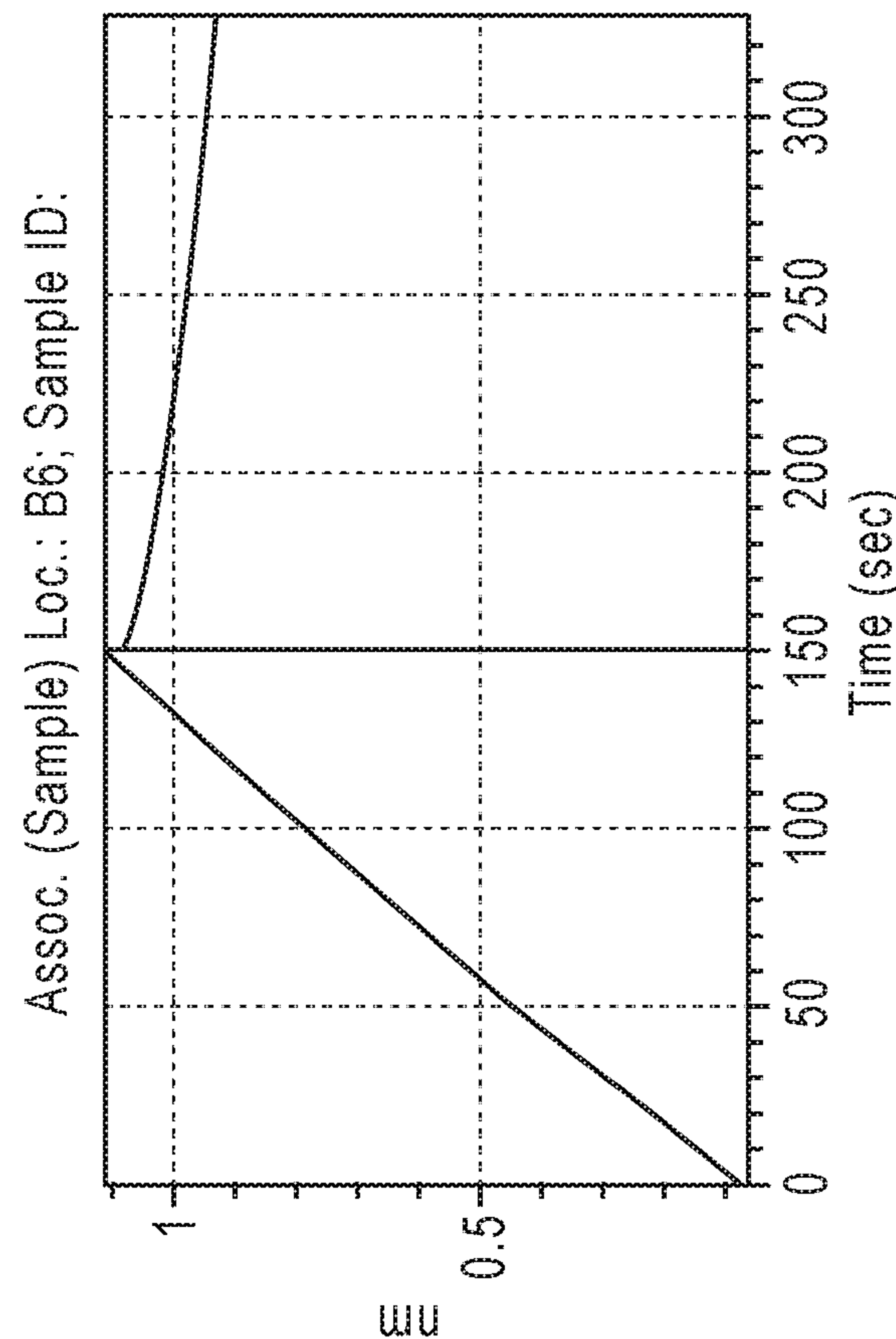


FIG. 11D

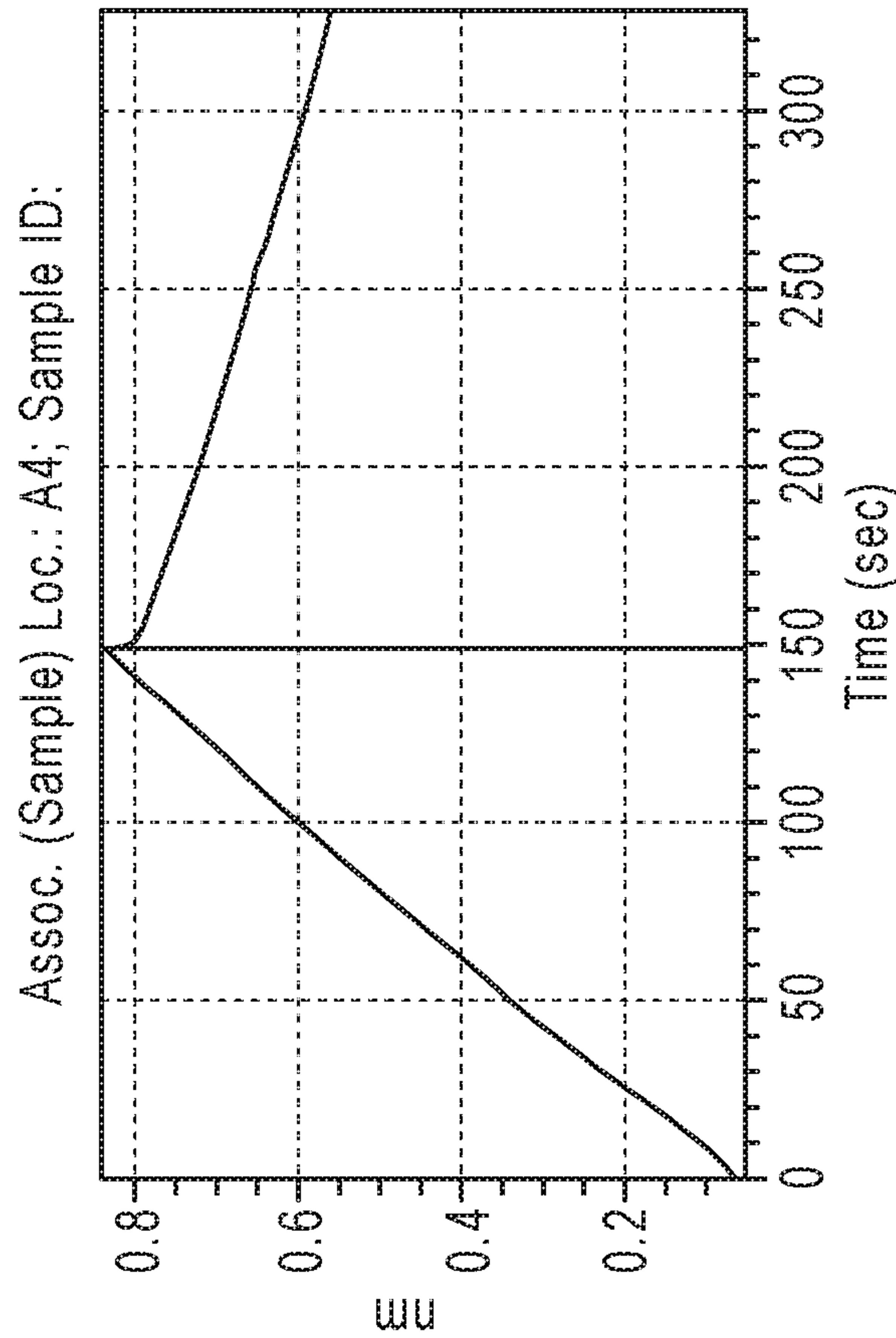


FIG. 11E

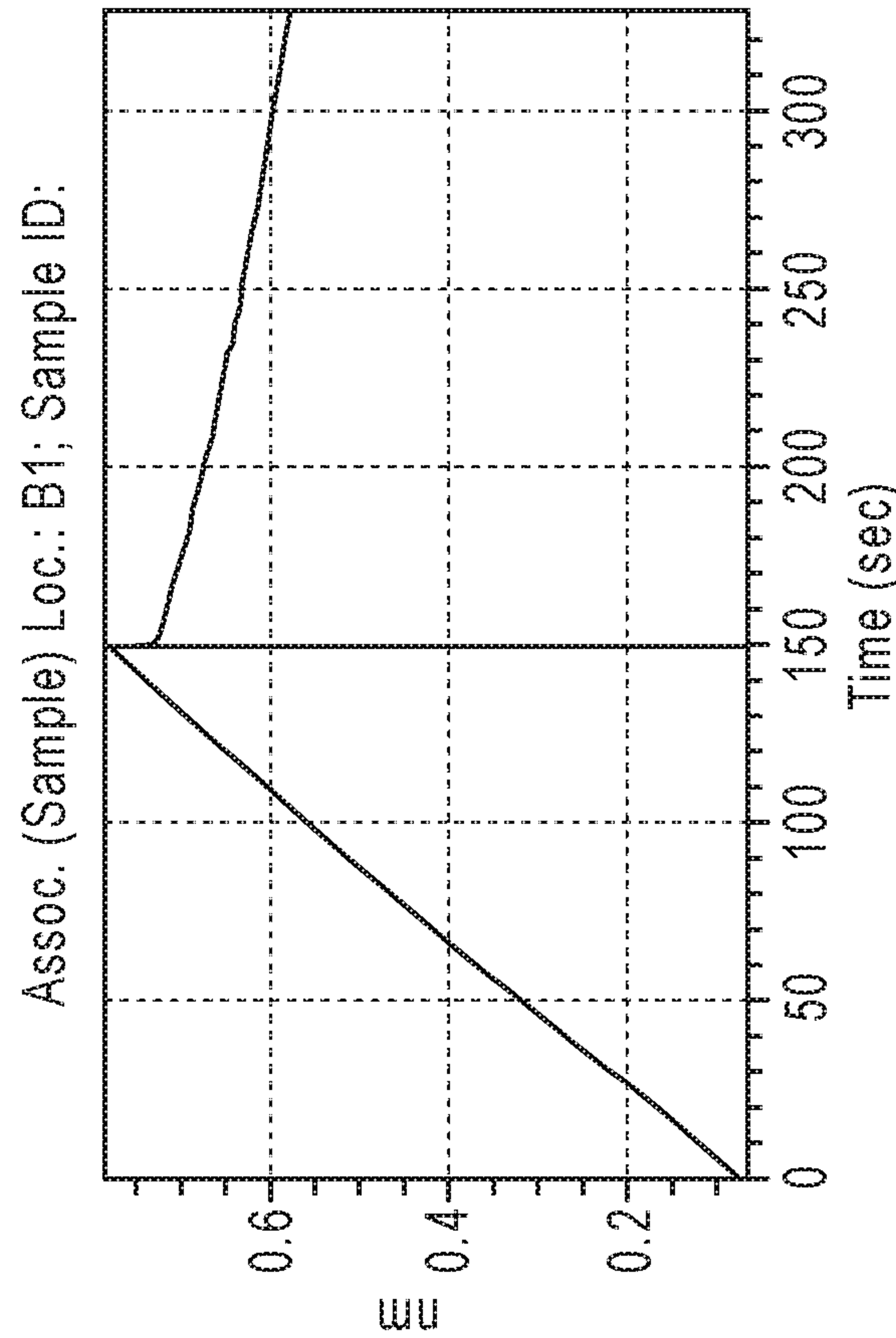


FIG. 11H

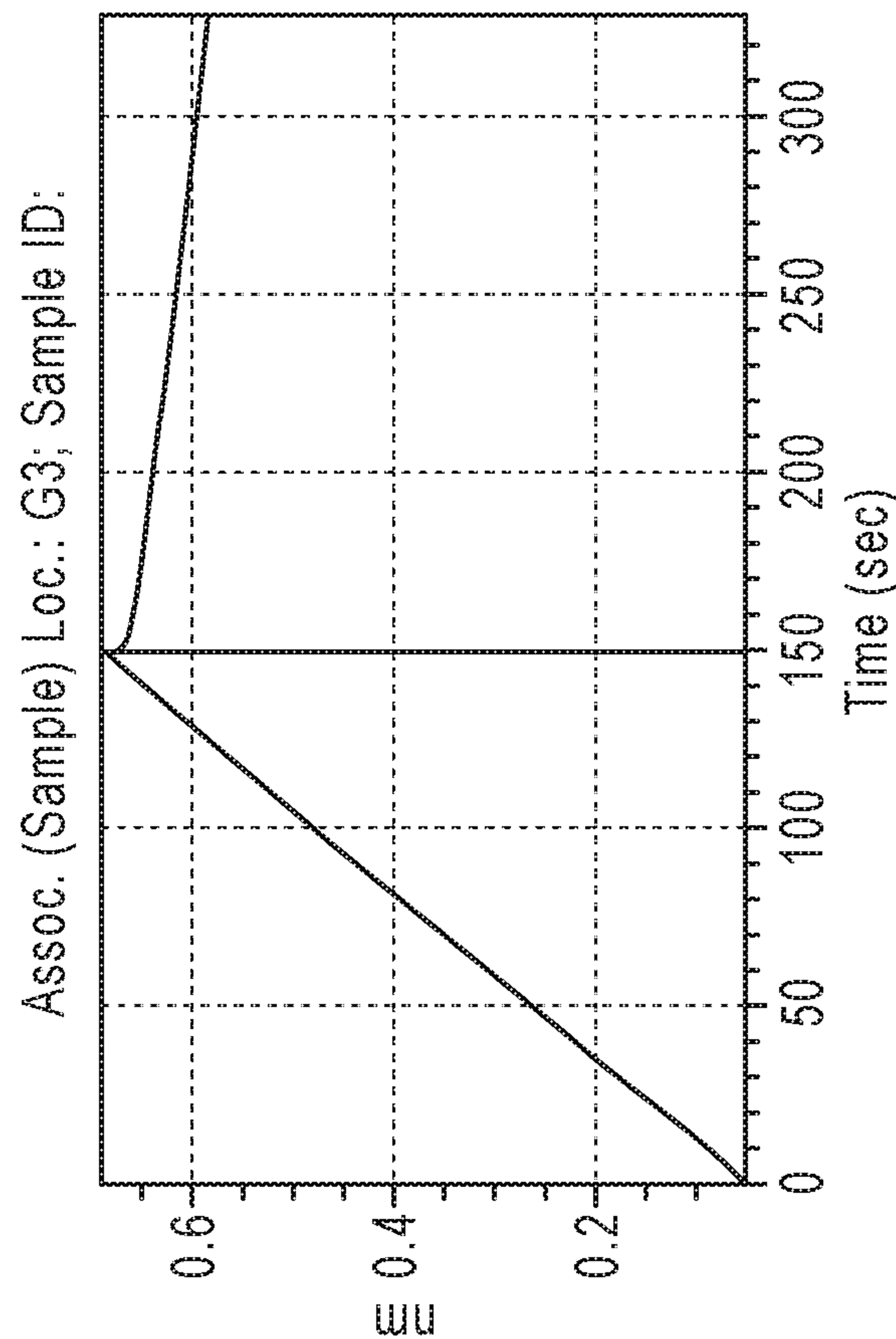


FIG. 11F

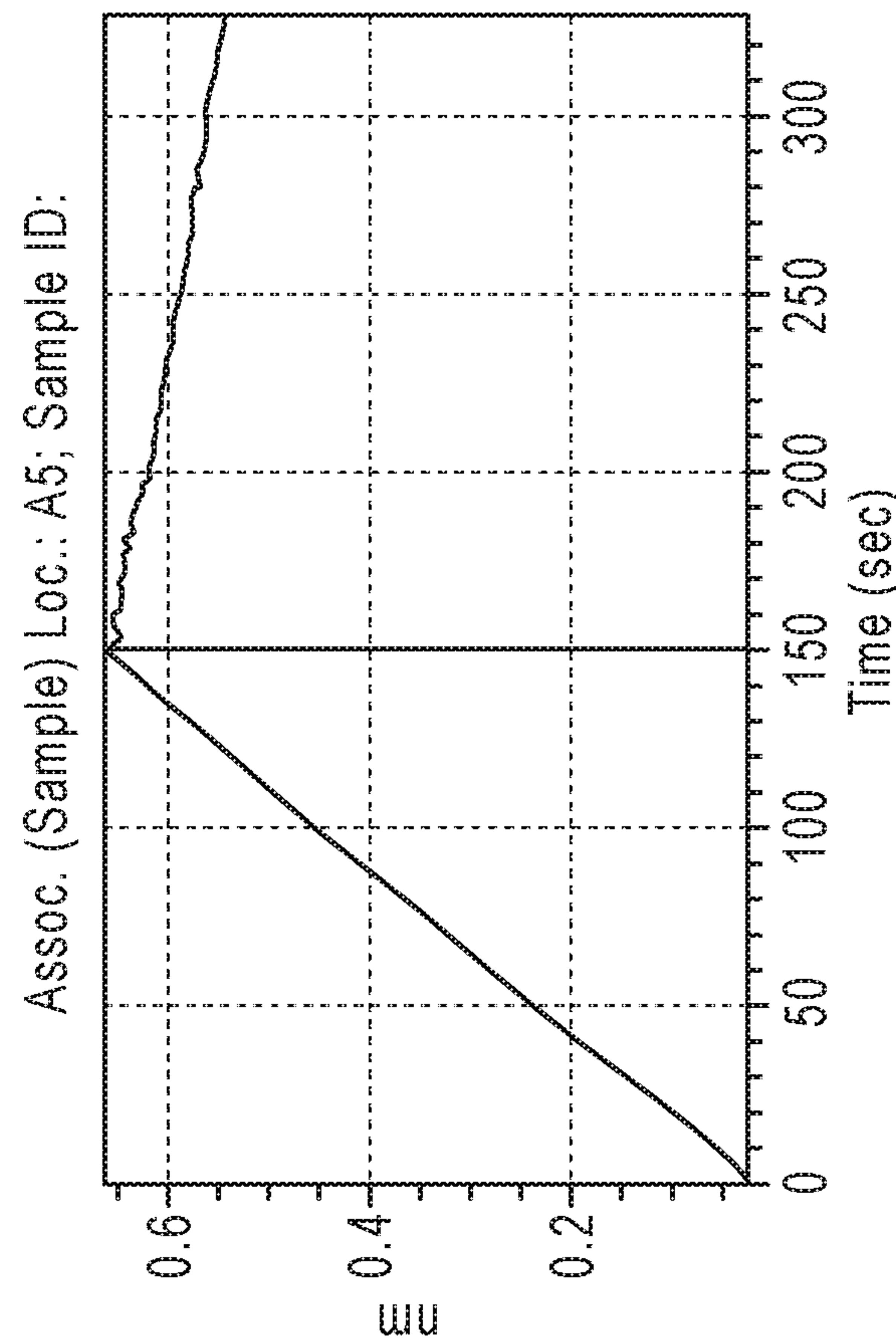


FIG. 11G

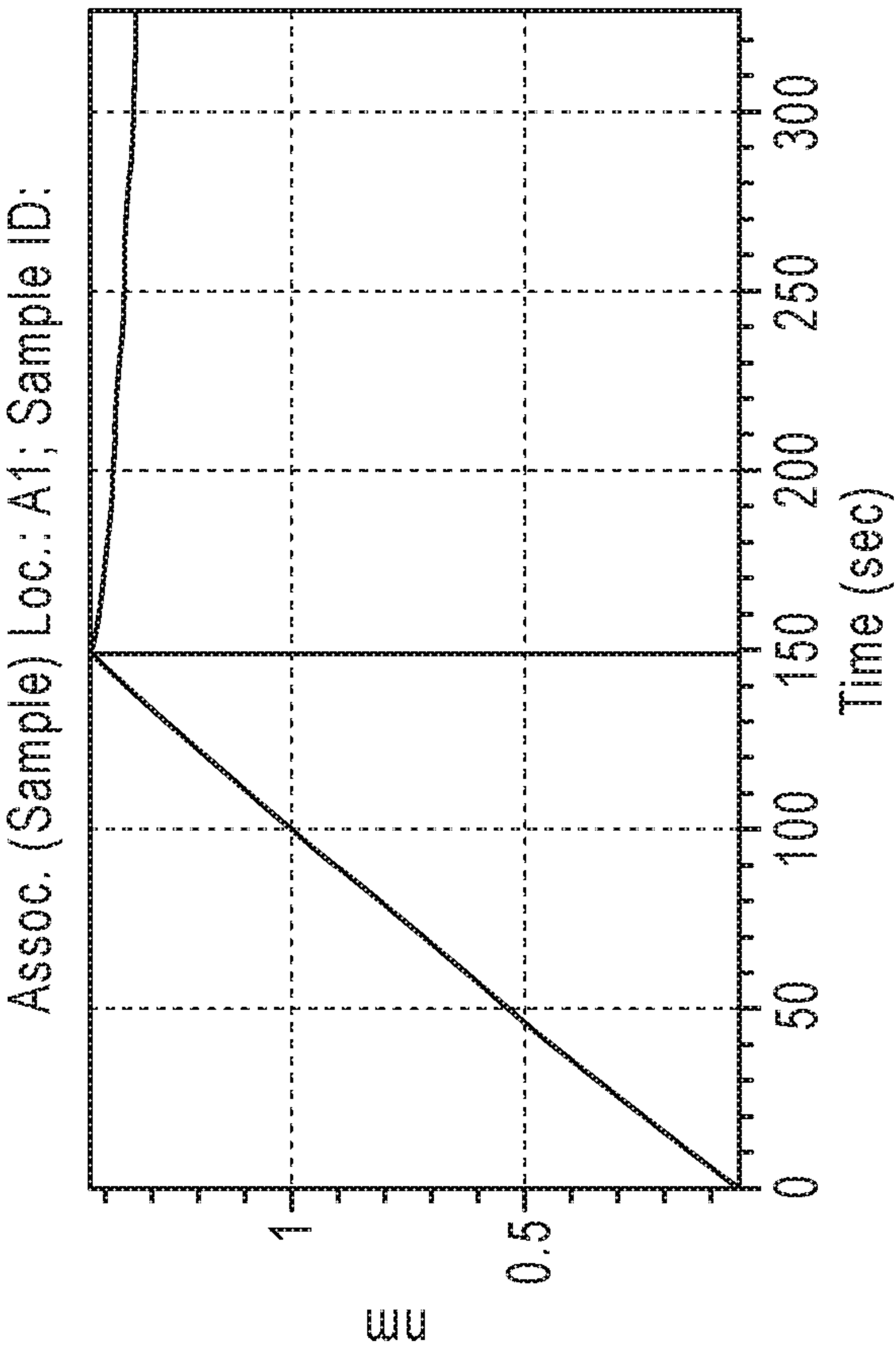


FIG. 11I

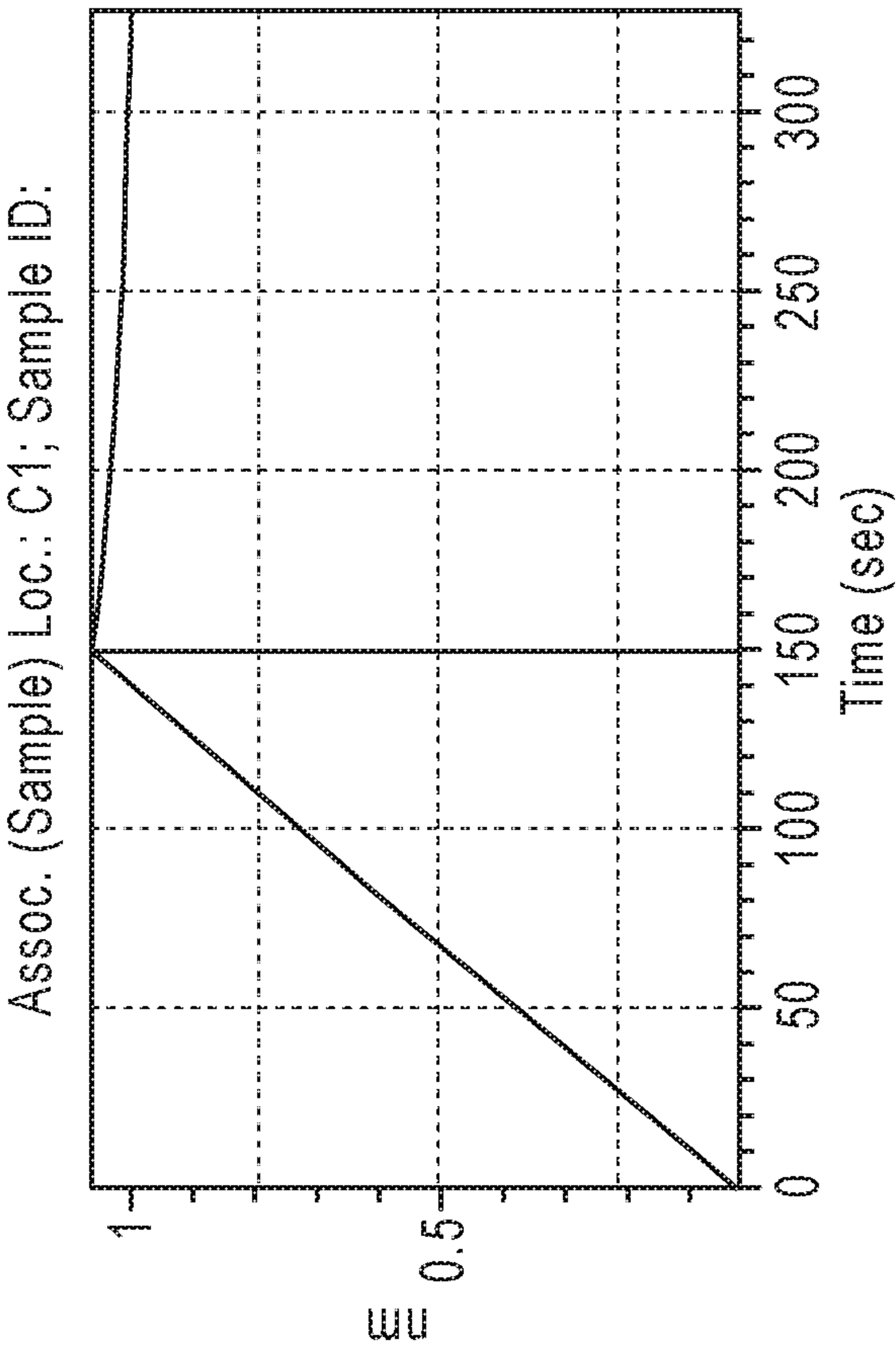


FIG. 11J

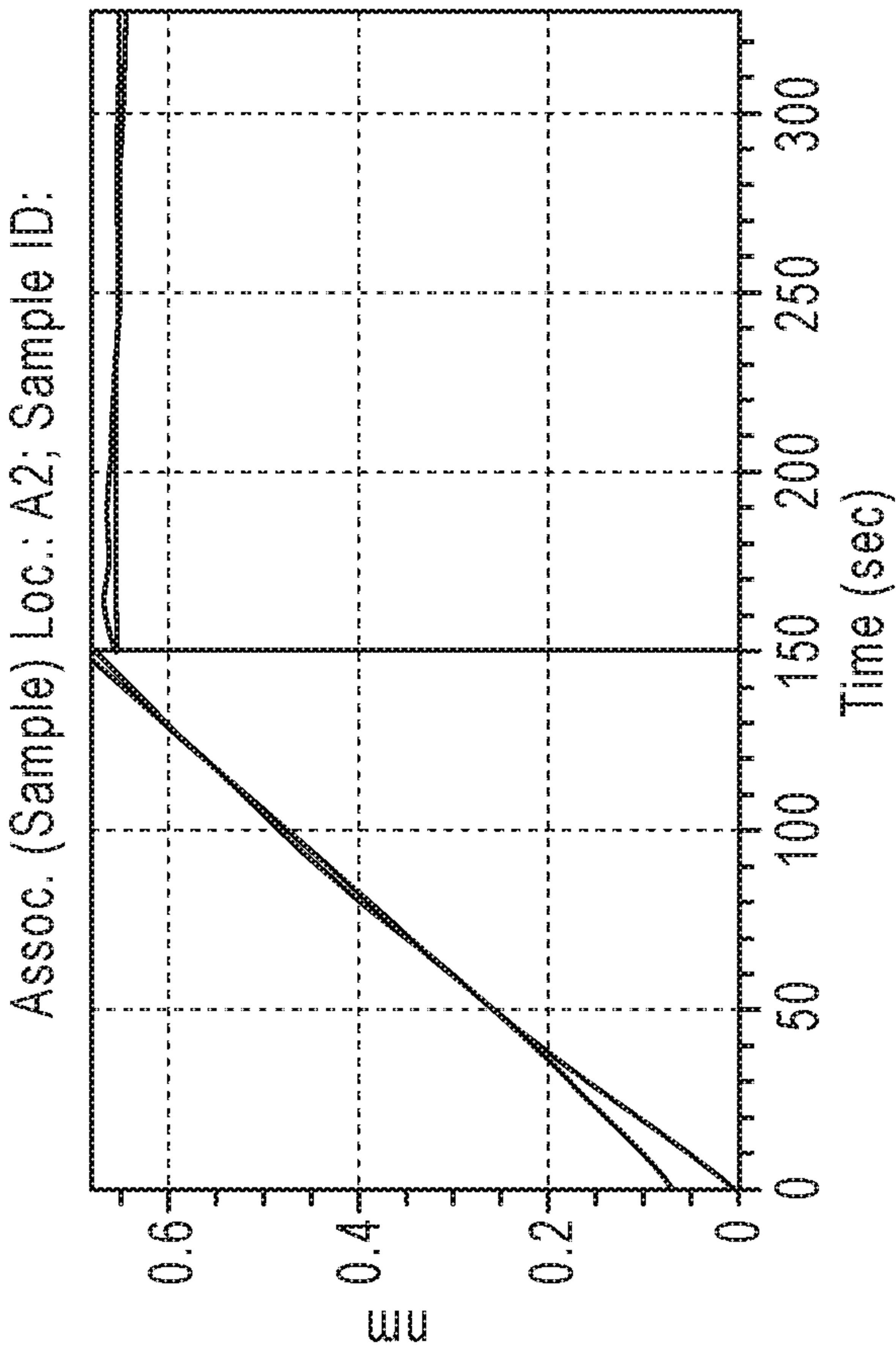


FIG. 11K

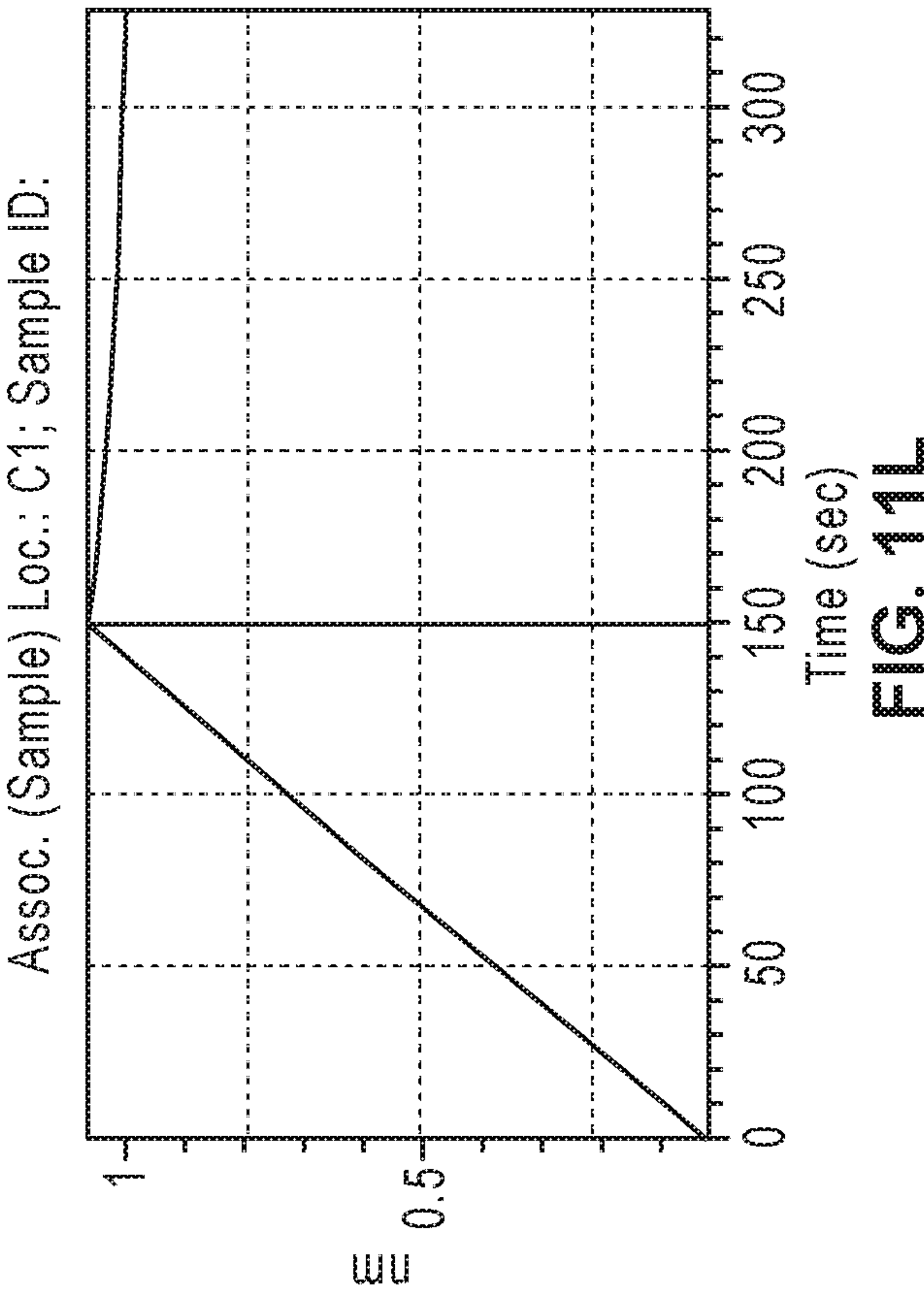


FIG. 11L

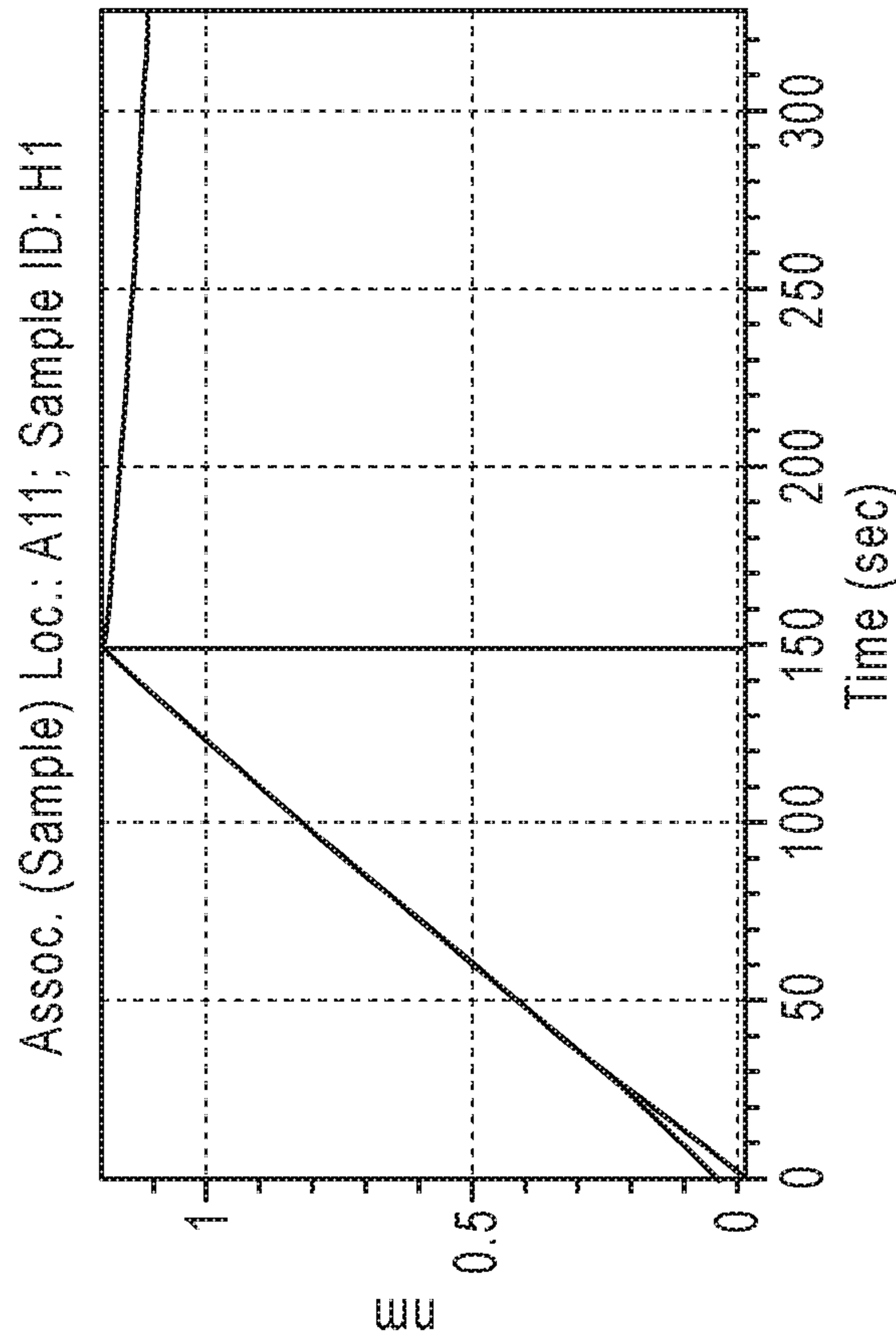


FIG. 11M

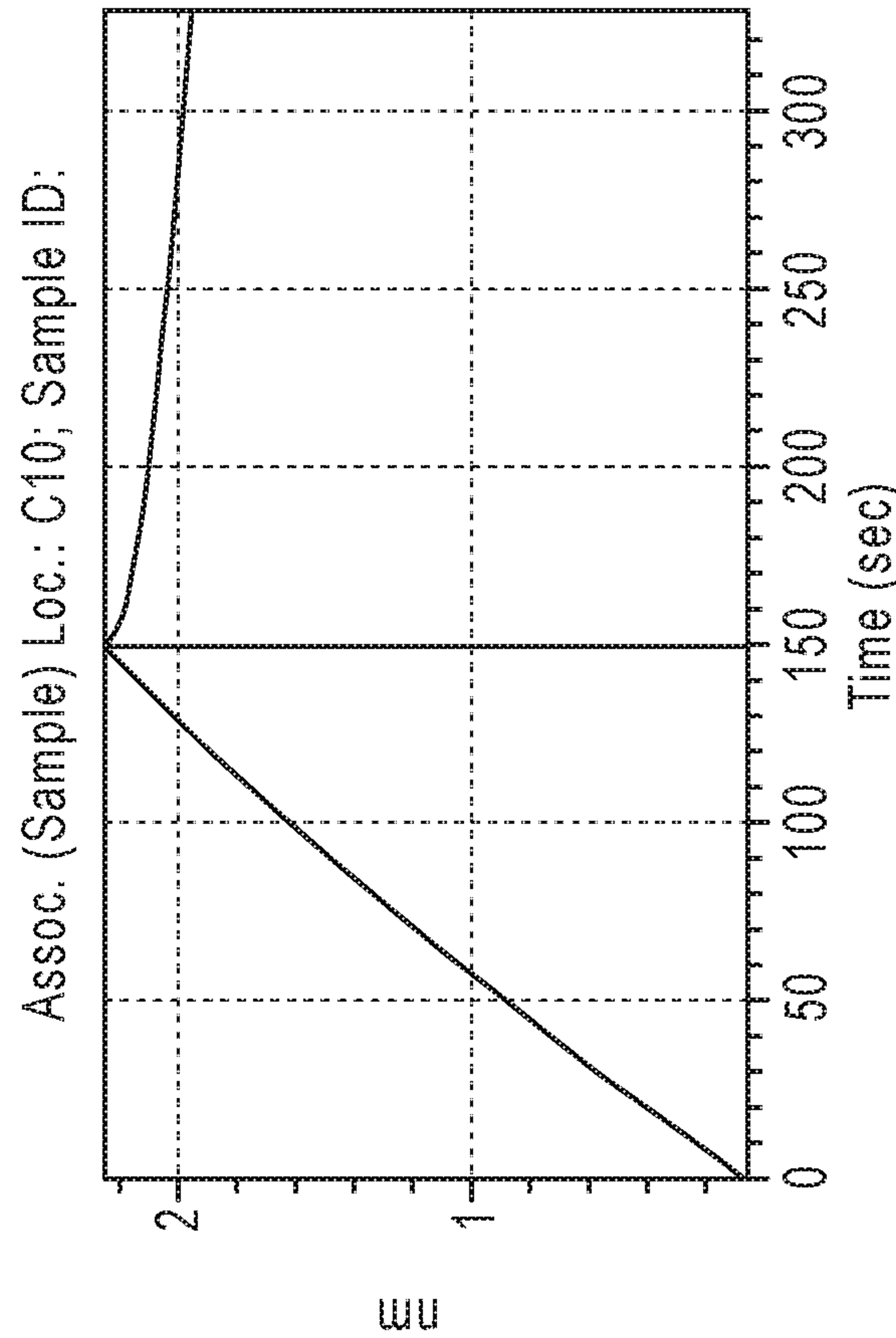


FIG. 11N

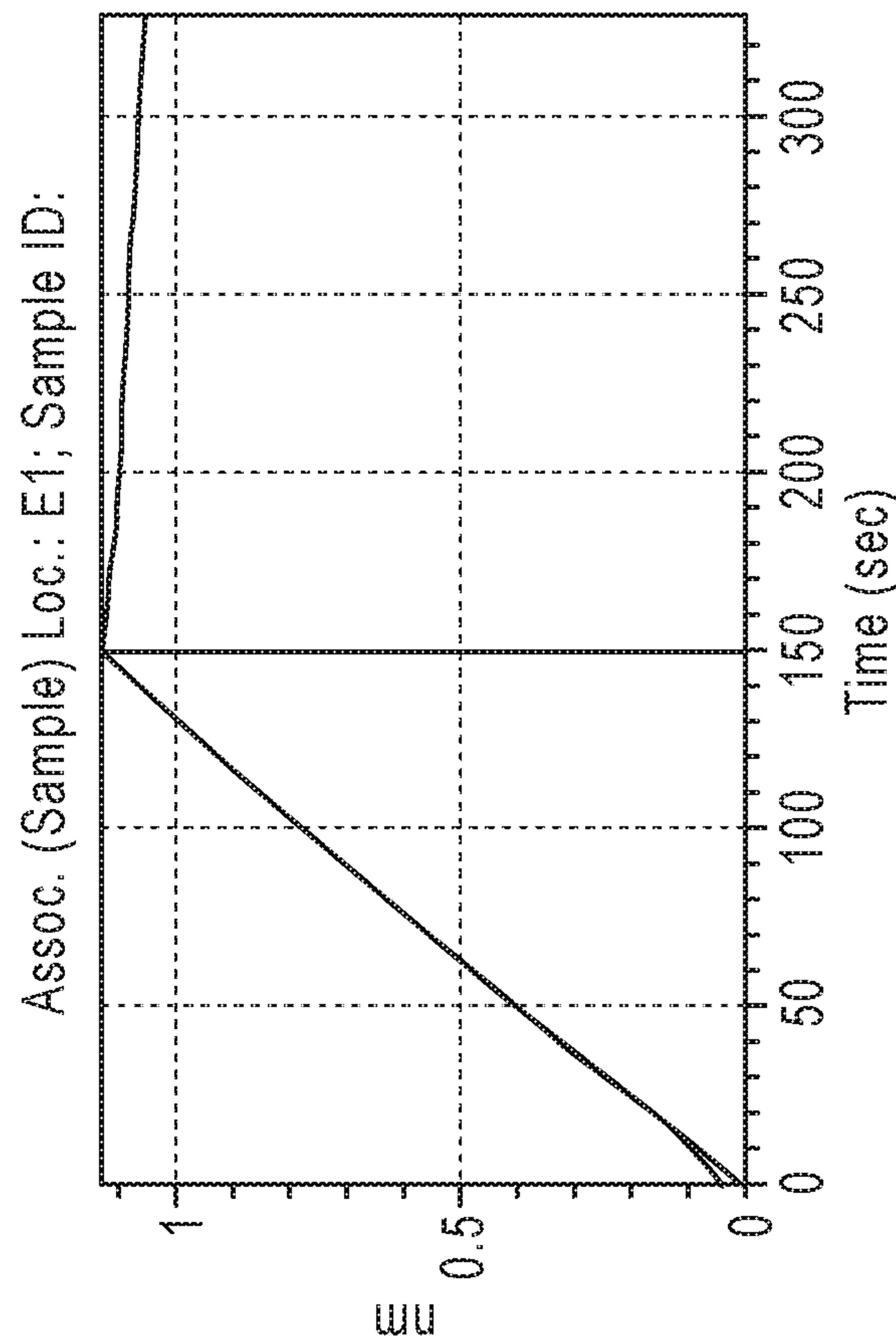


FIG. 11O

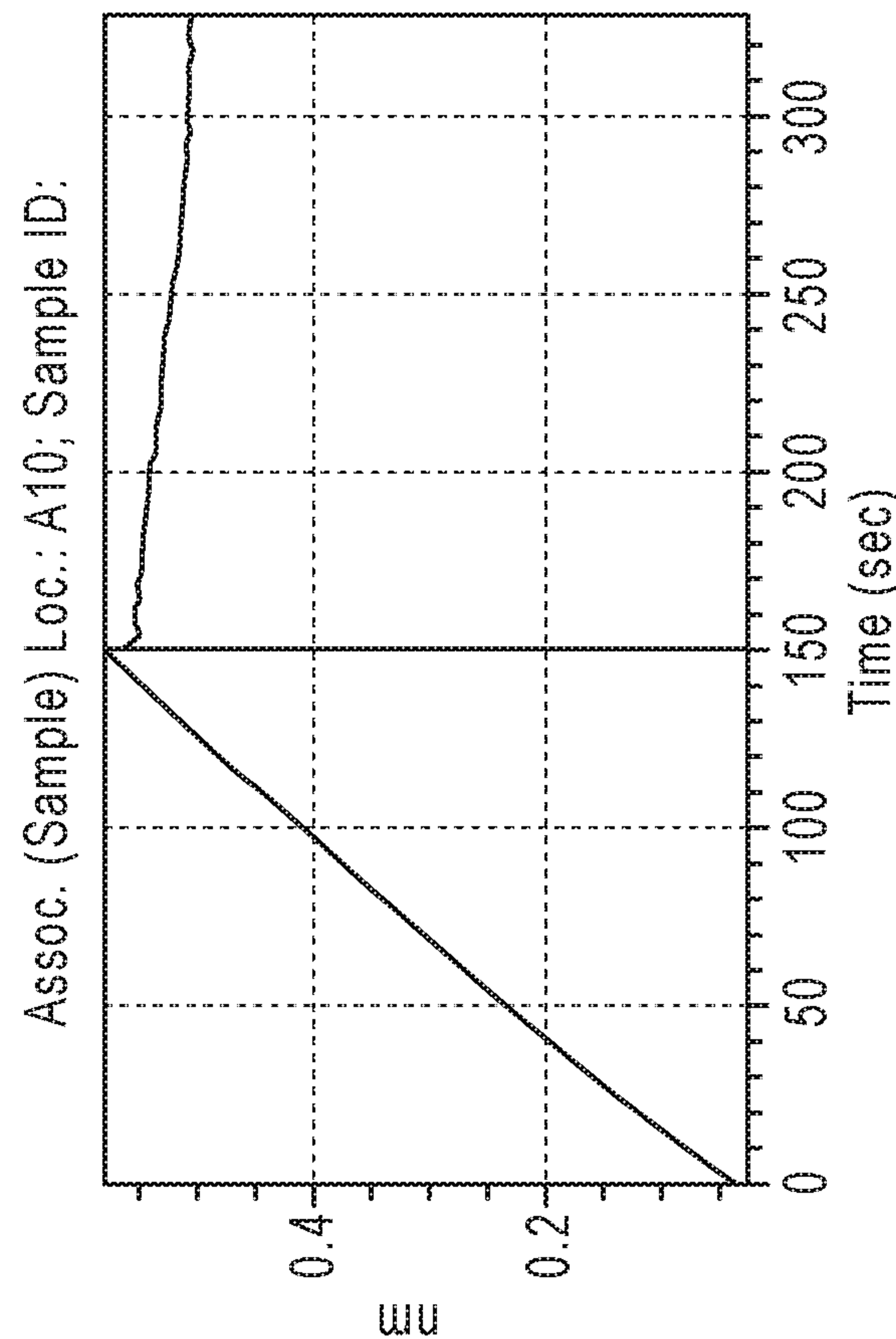


FIG. 11P

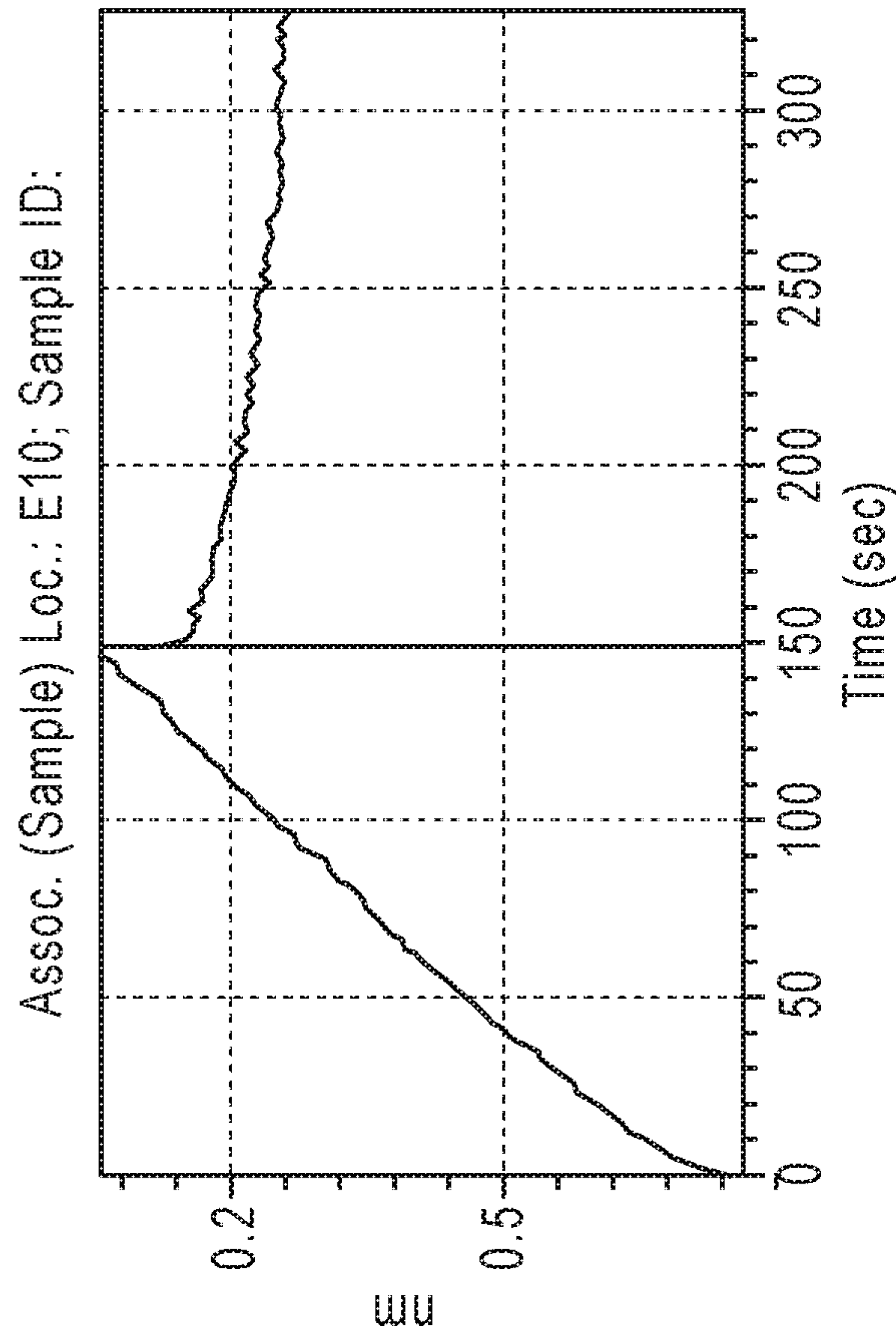


FIG. 11R

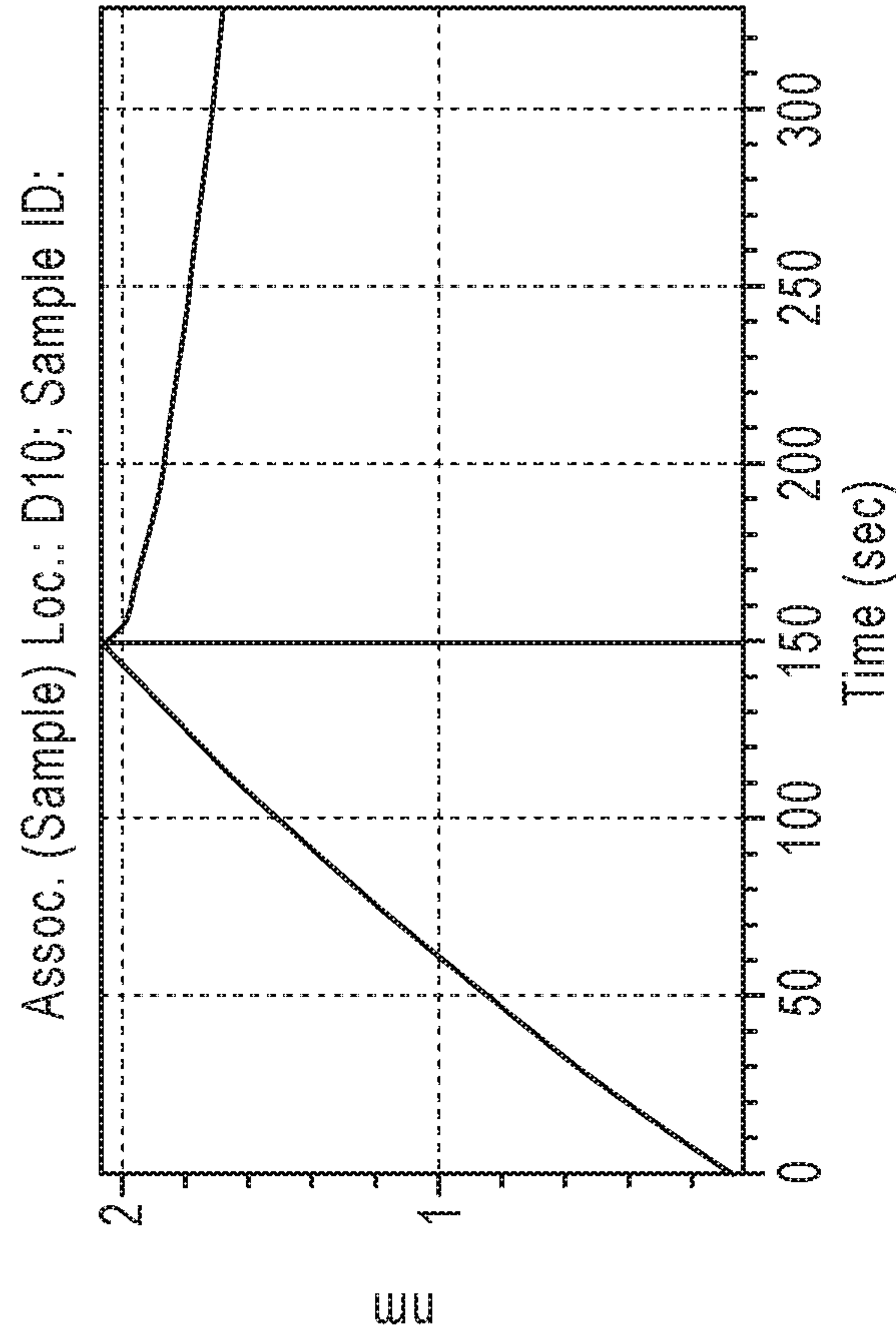


FIG. 11Q

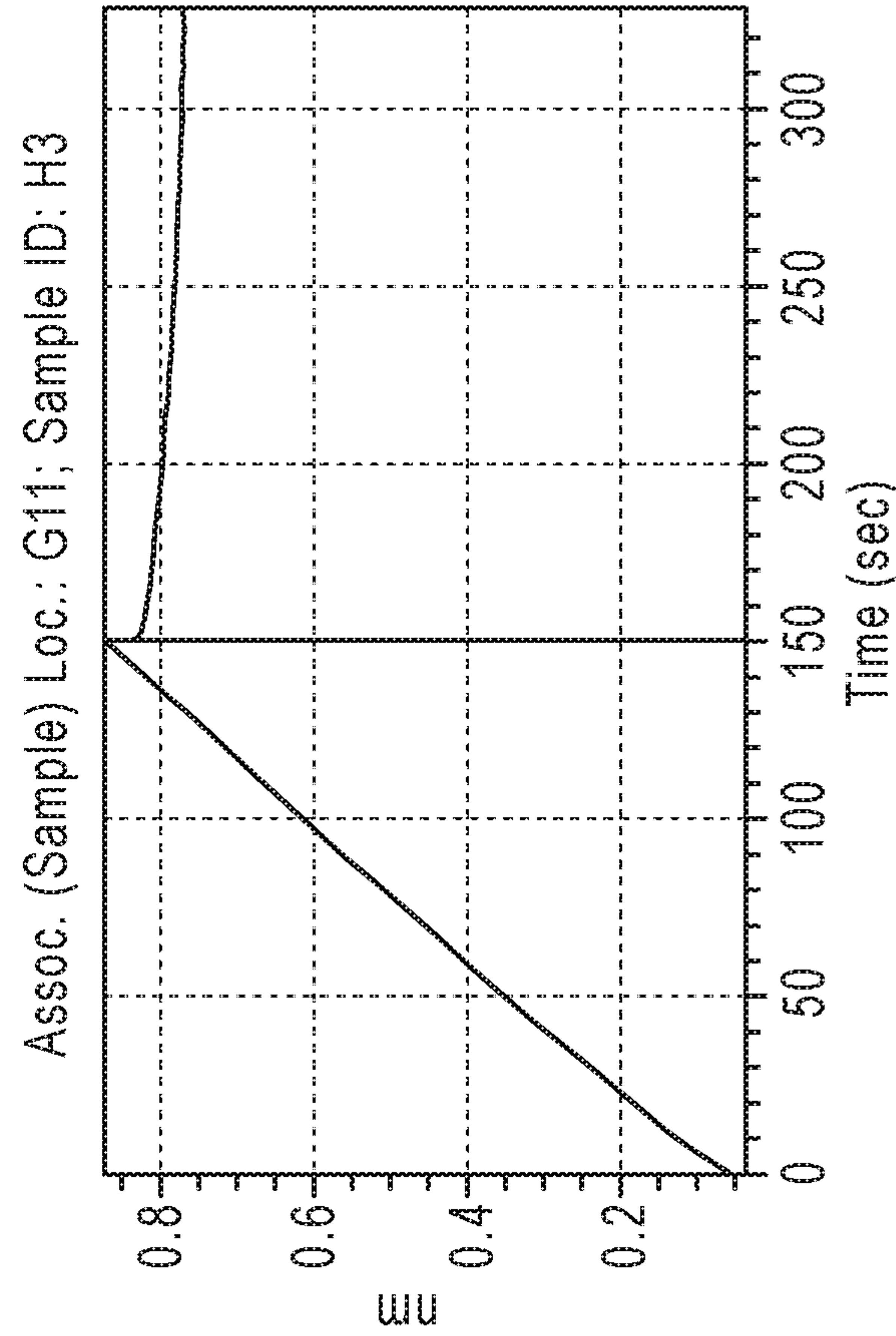


FIG. 11S

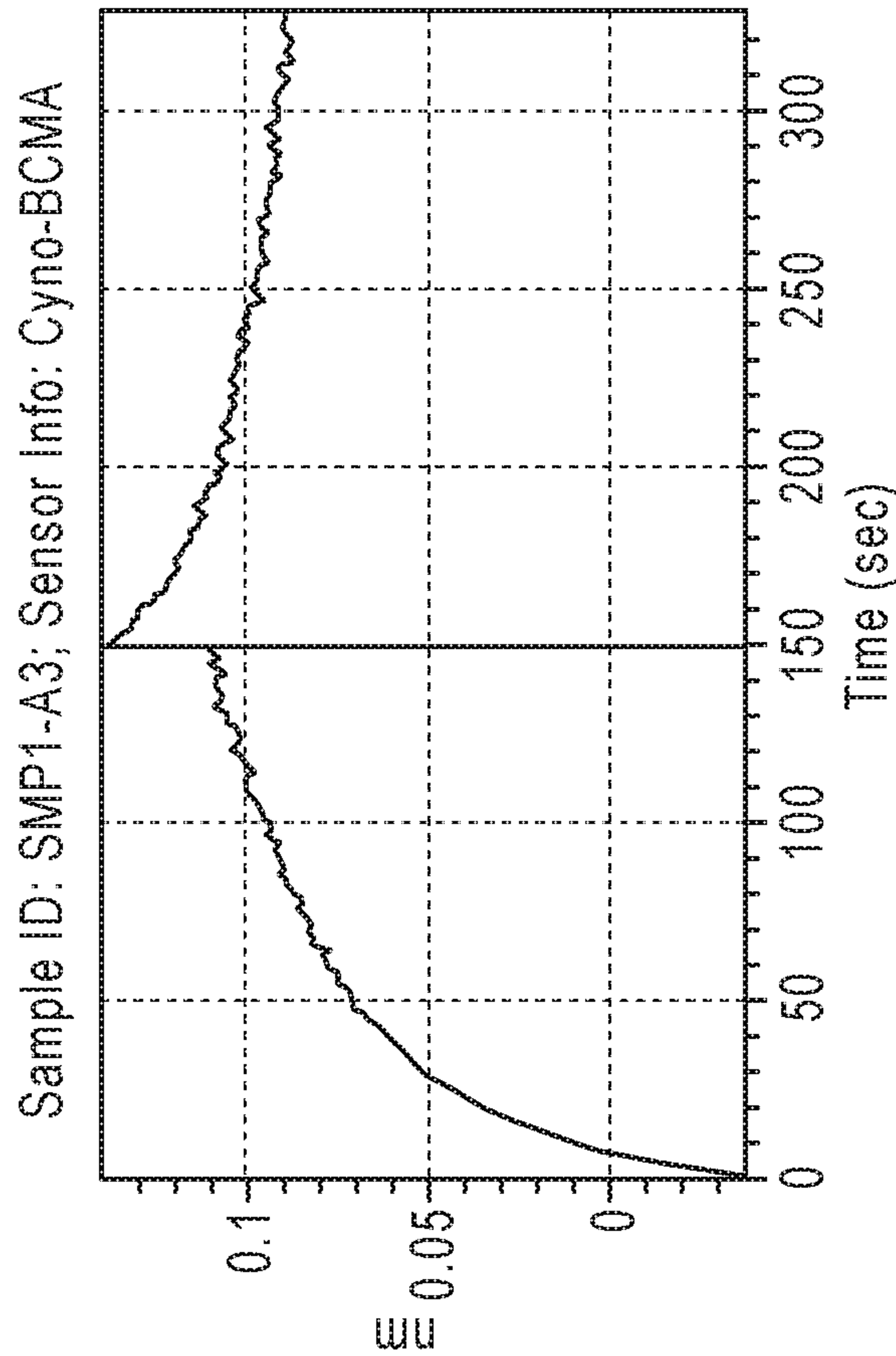


FIG. 12B

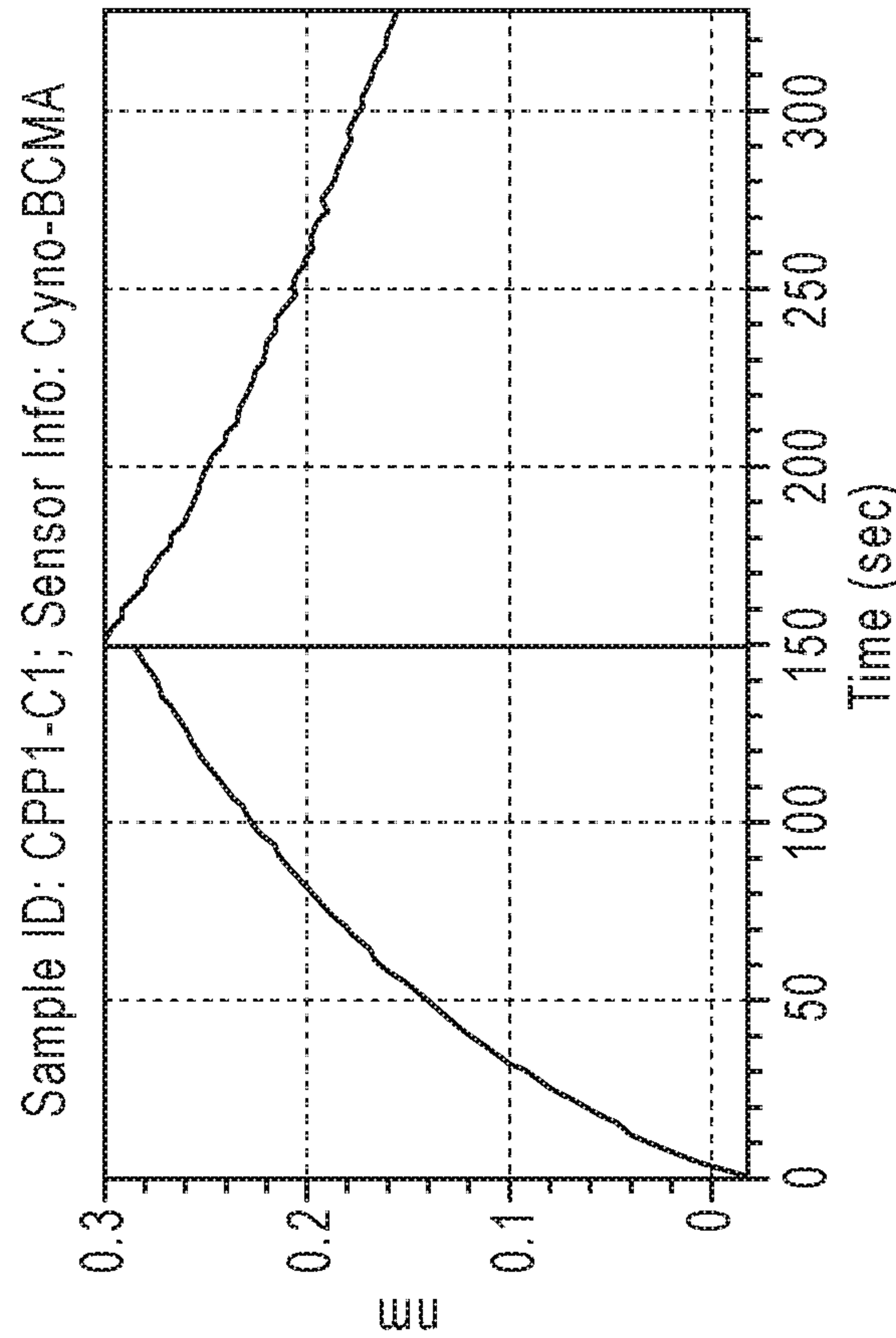


FIG. 12D

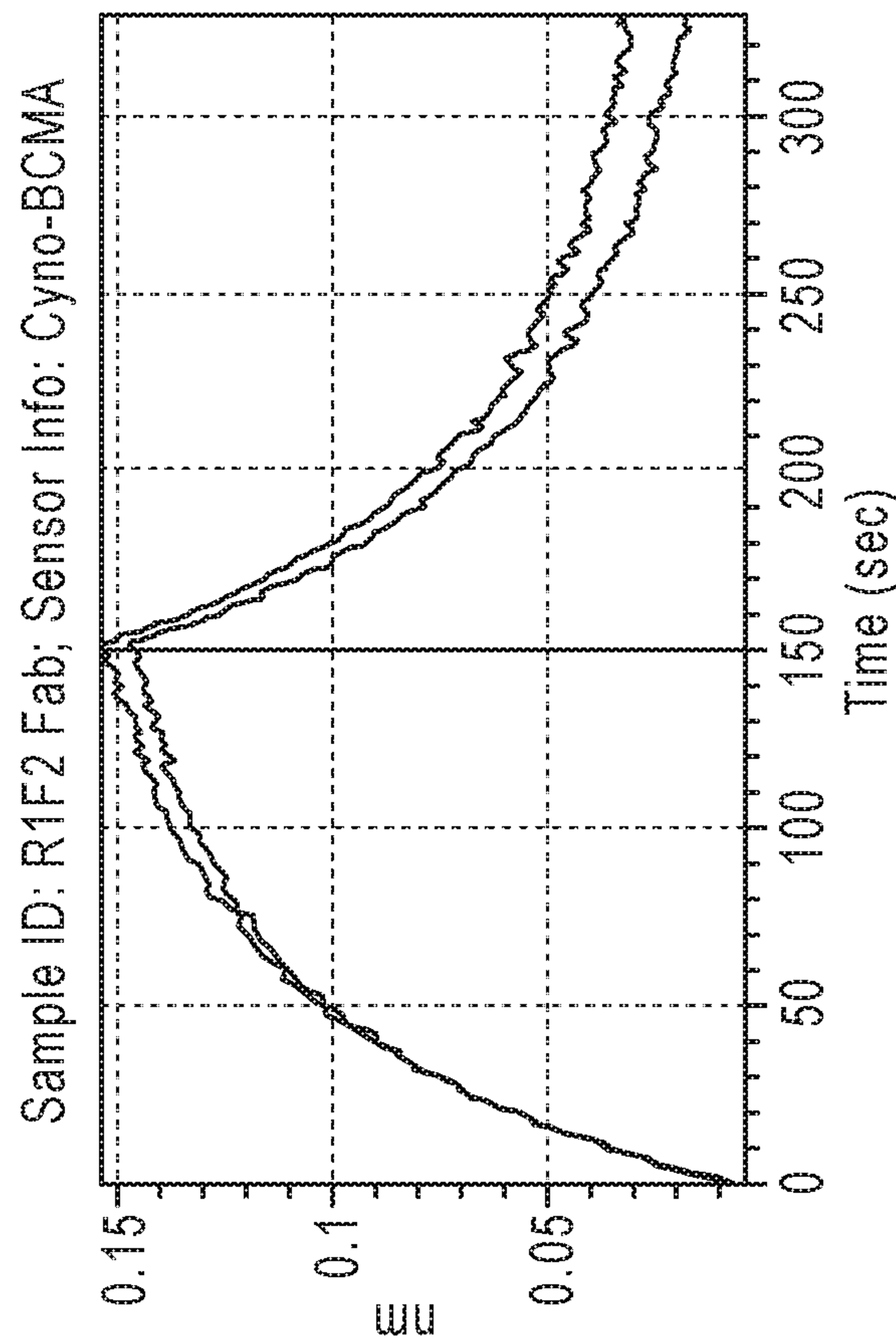


FIG. 12A

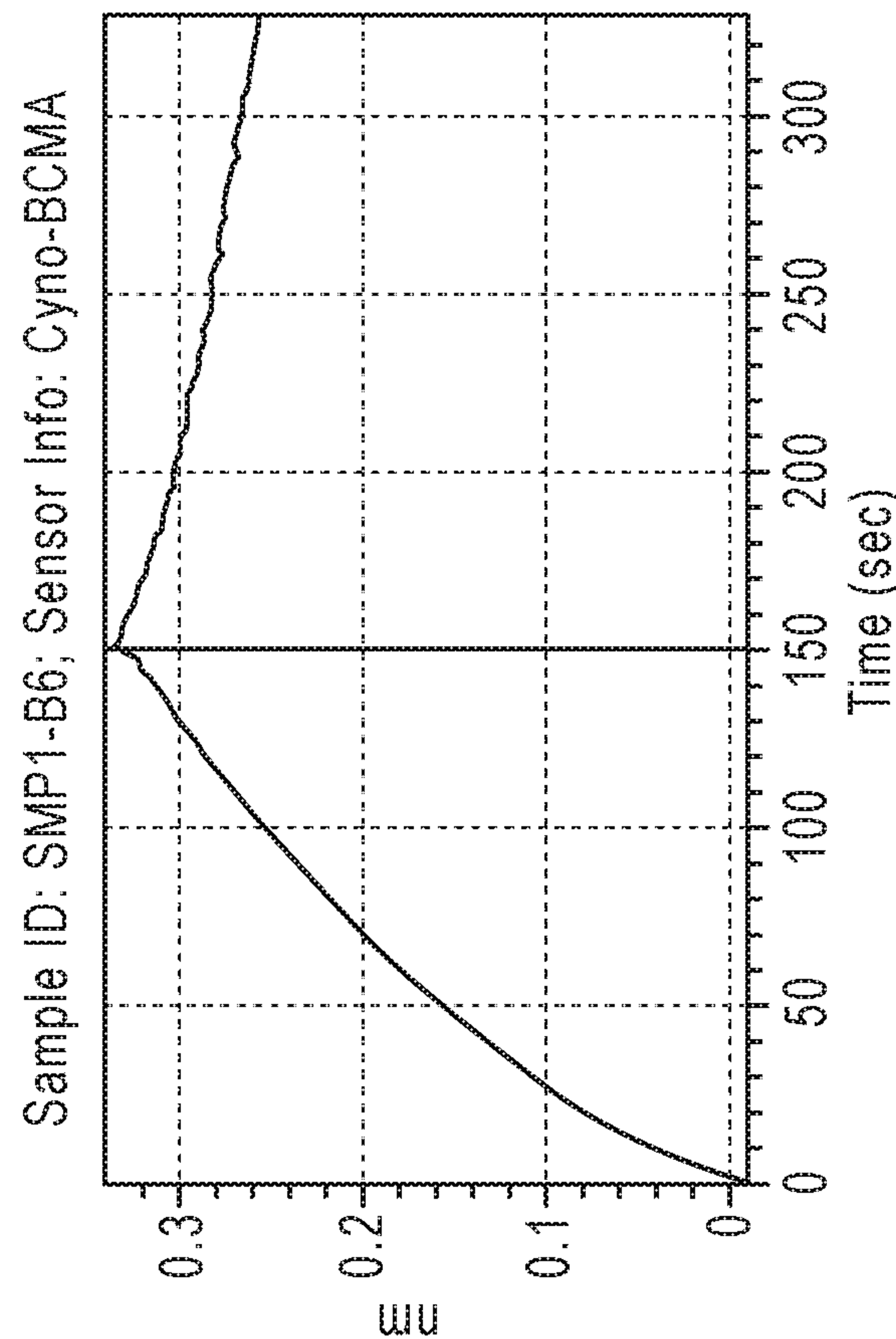


FIG. 12C

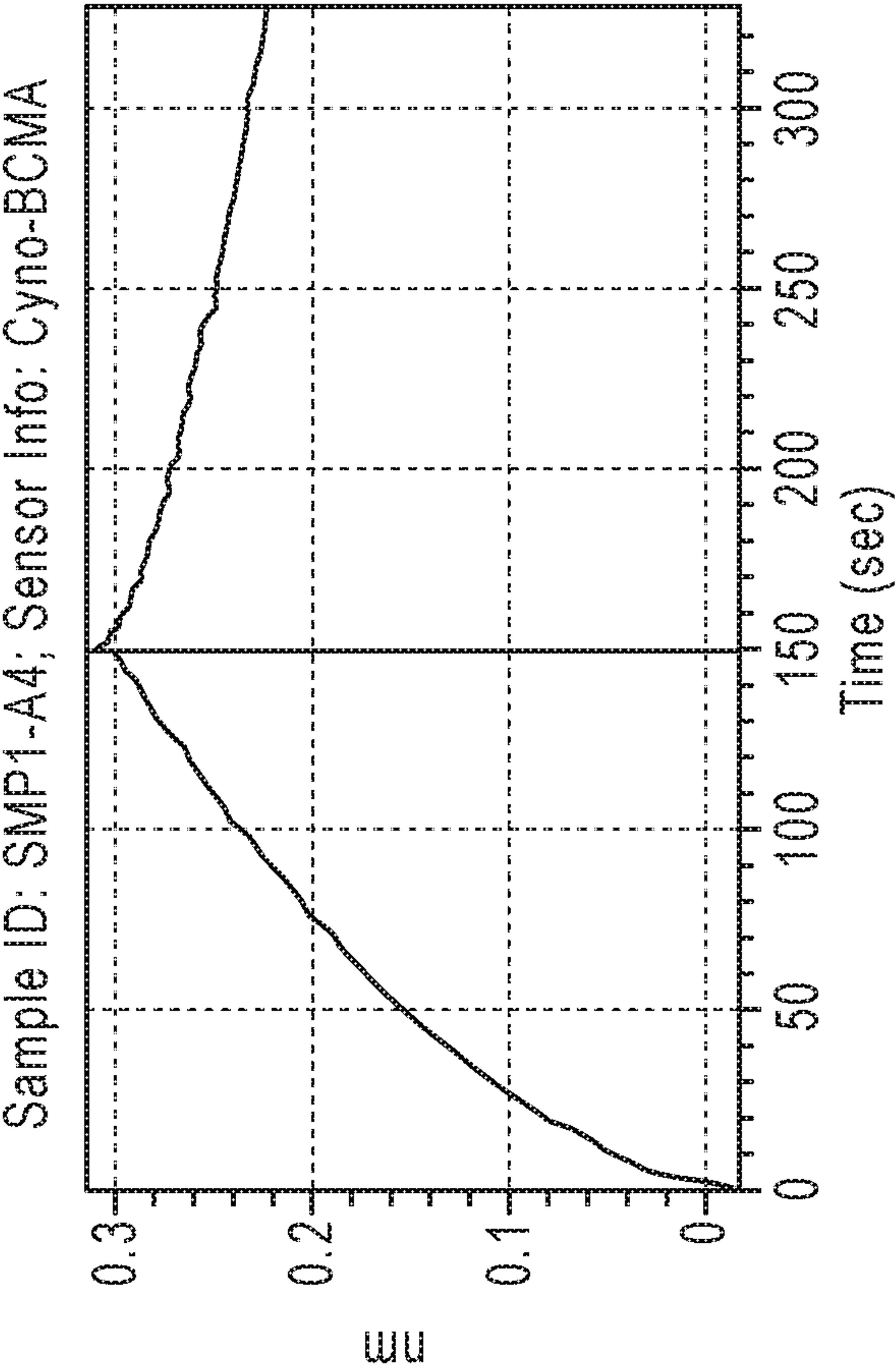


FIG. 12F

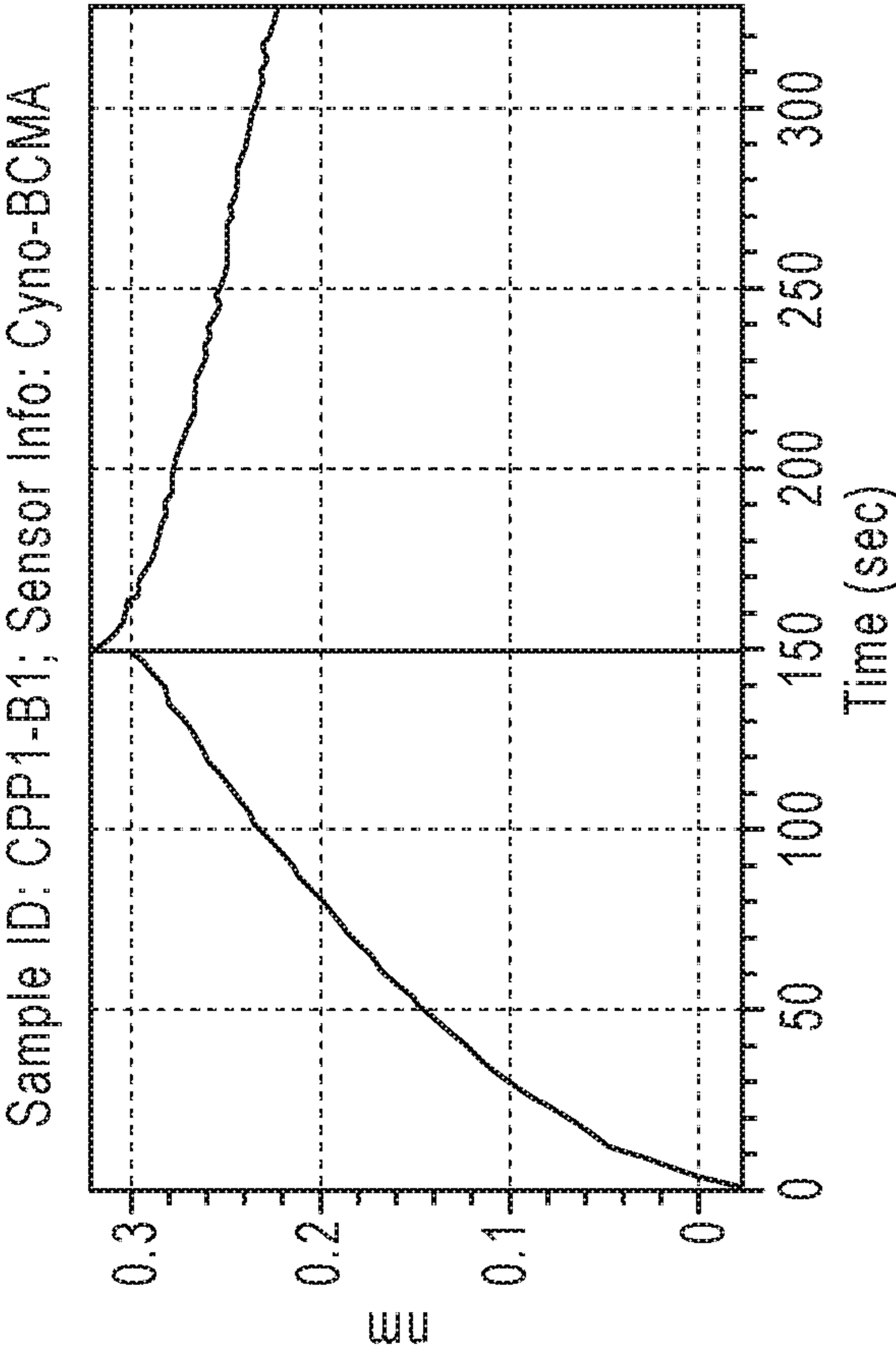


FIG. 12H

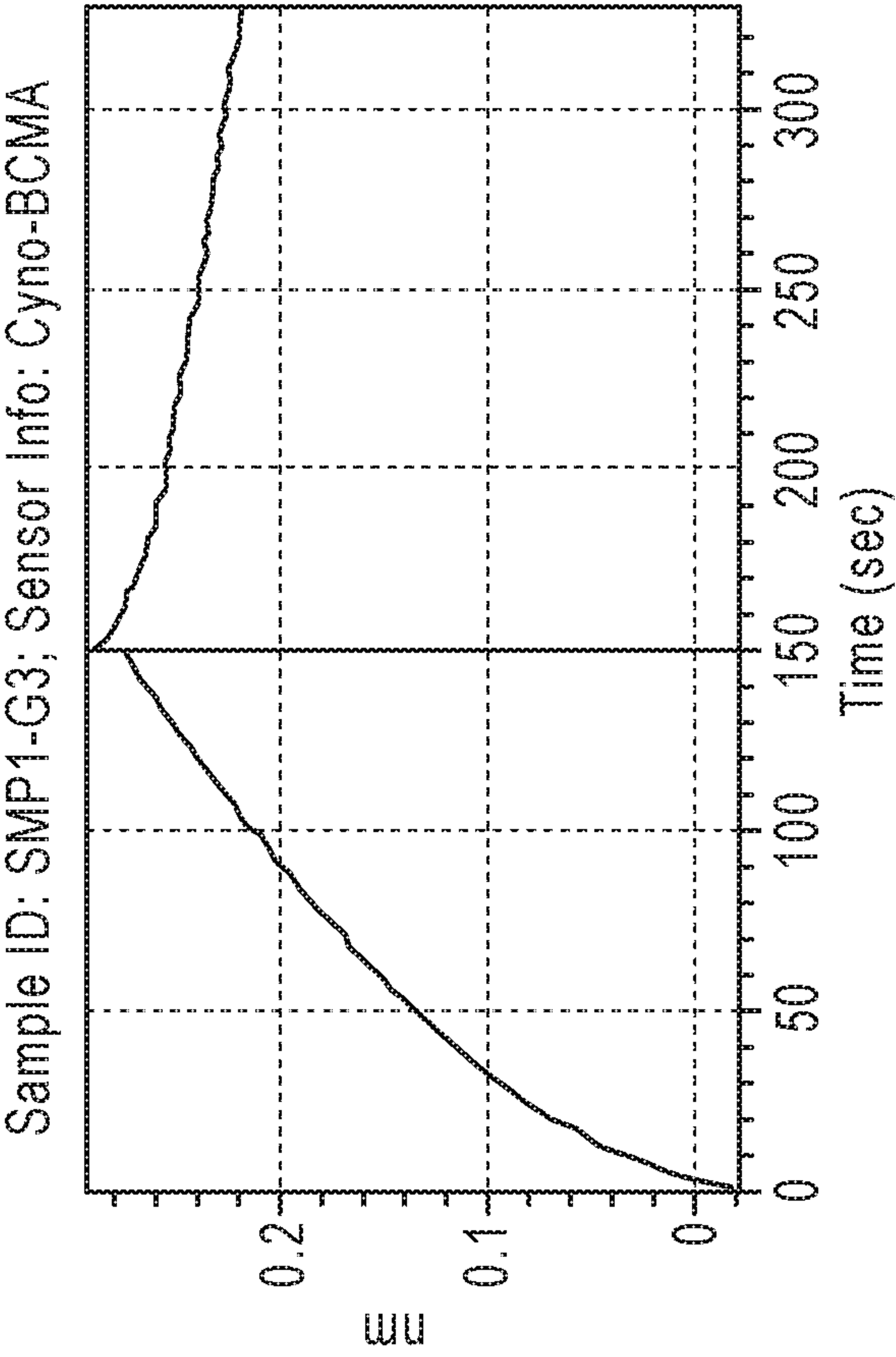


FIG. 12E

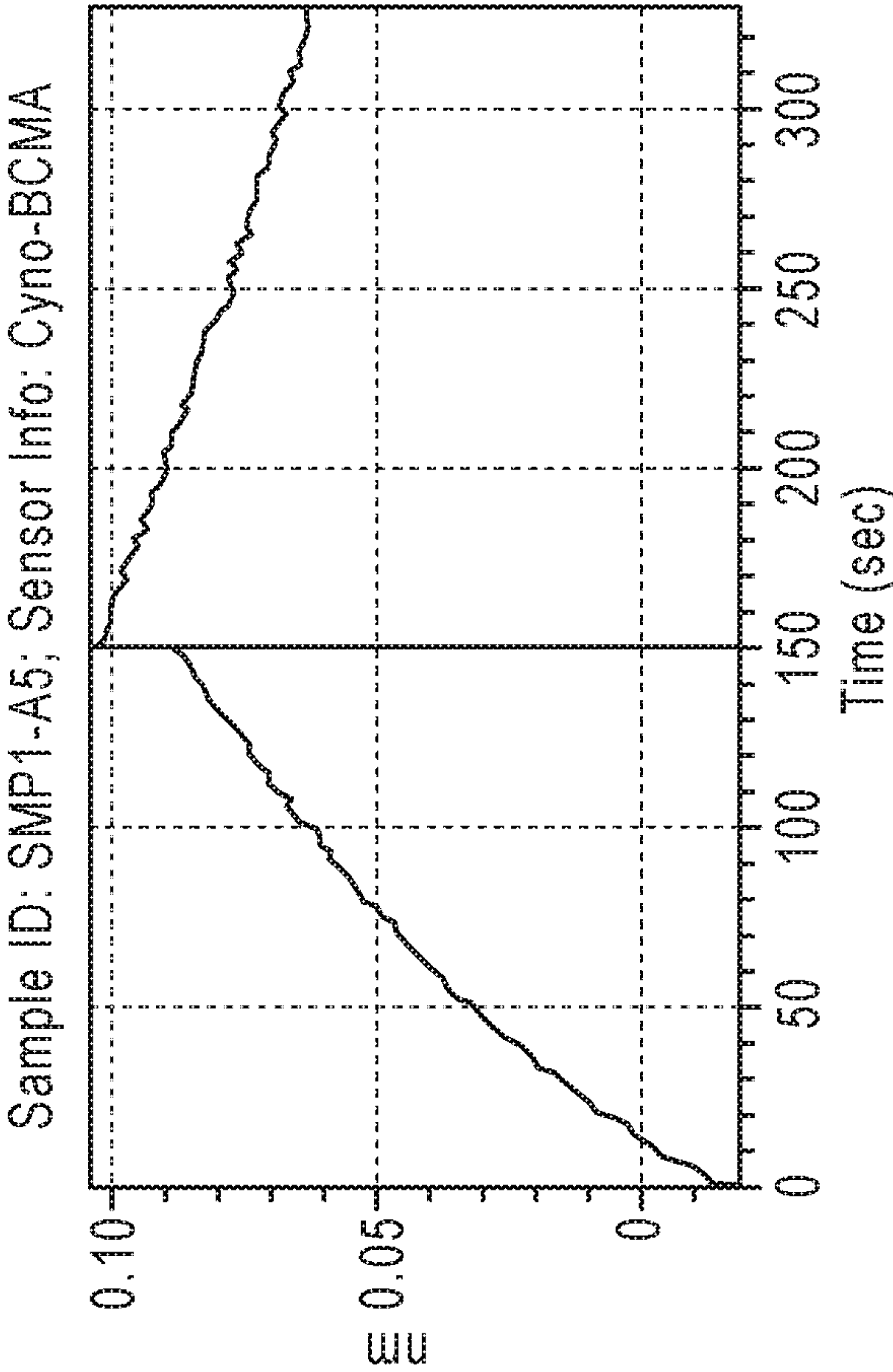
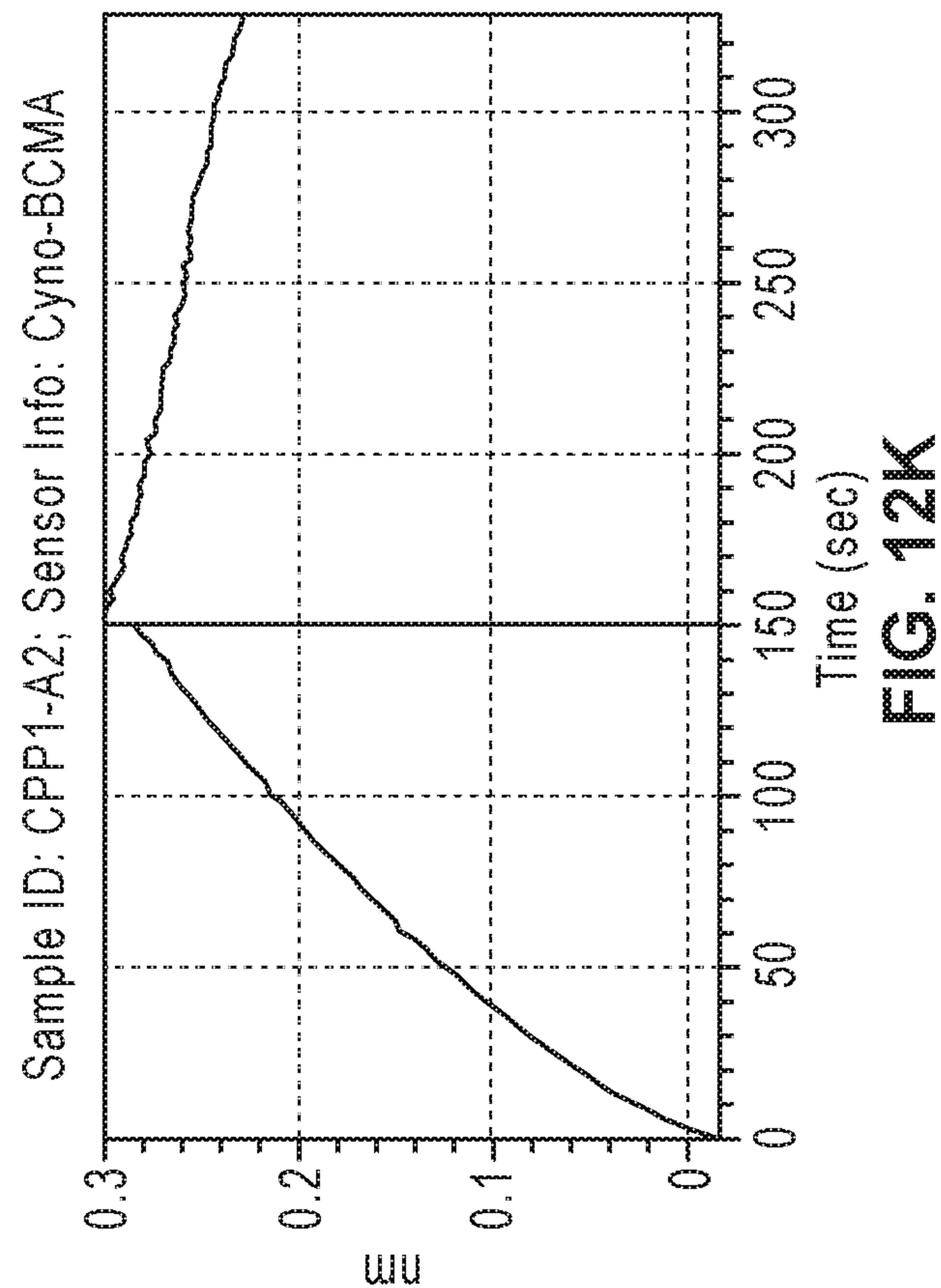
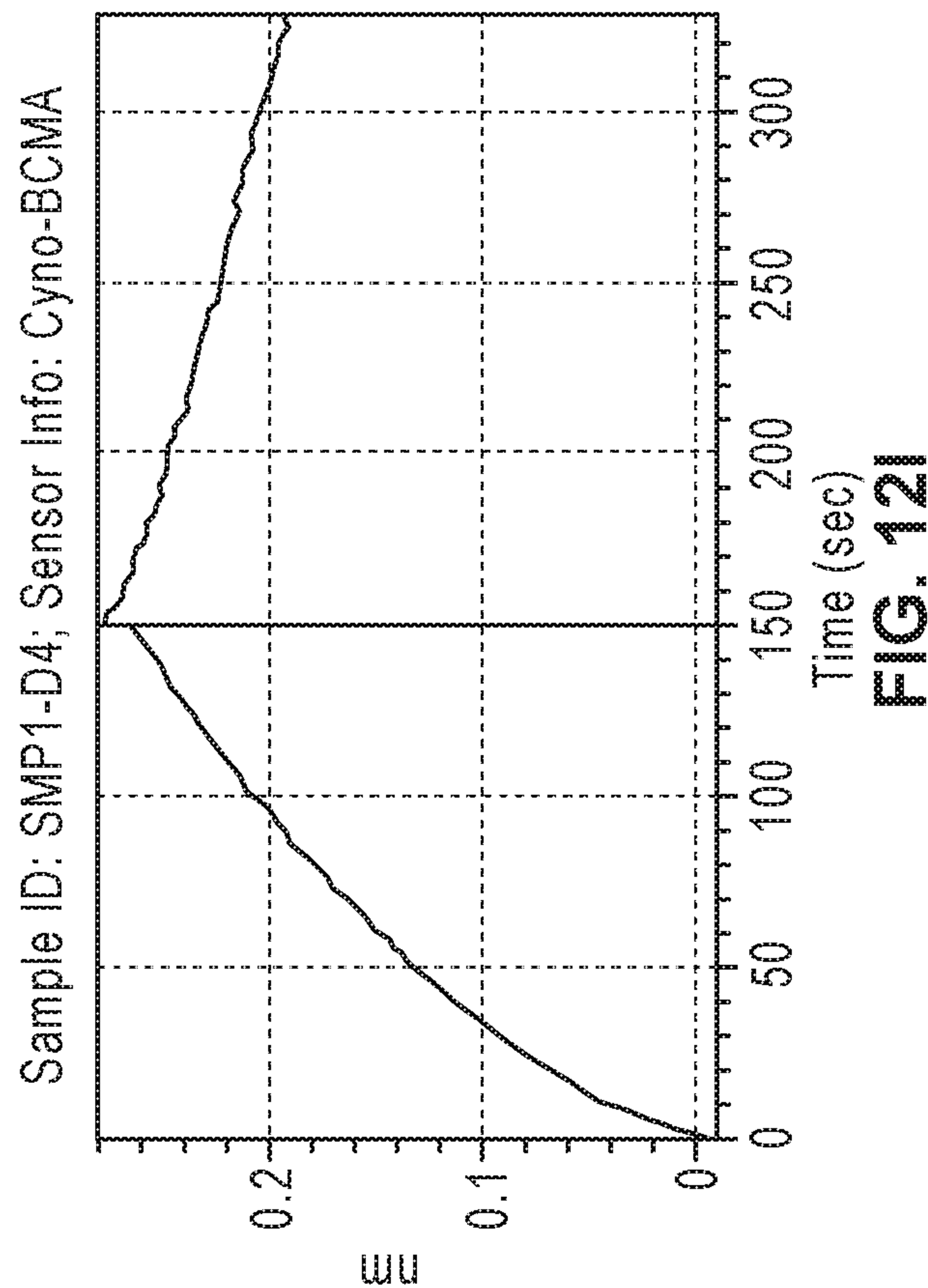
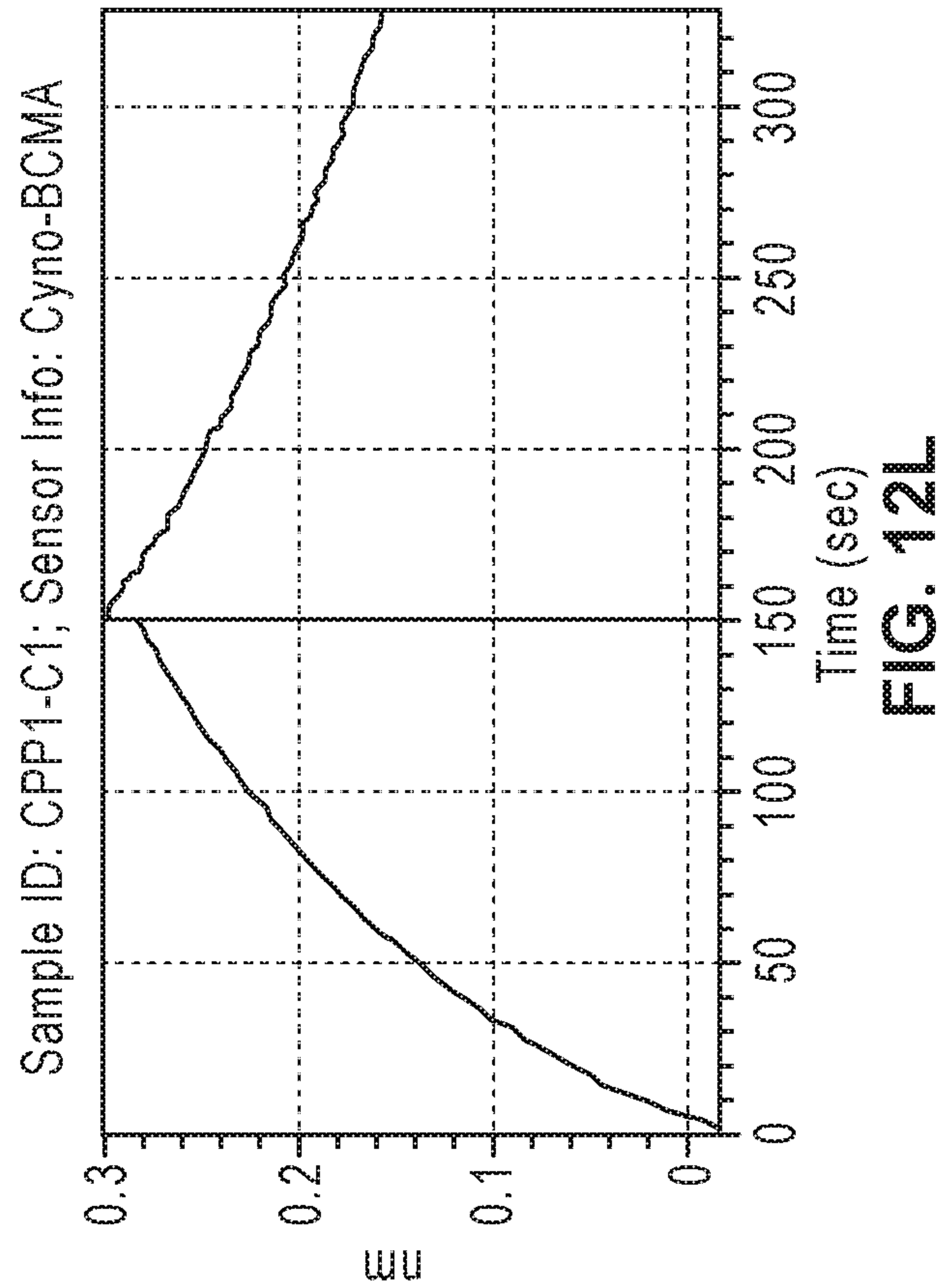
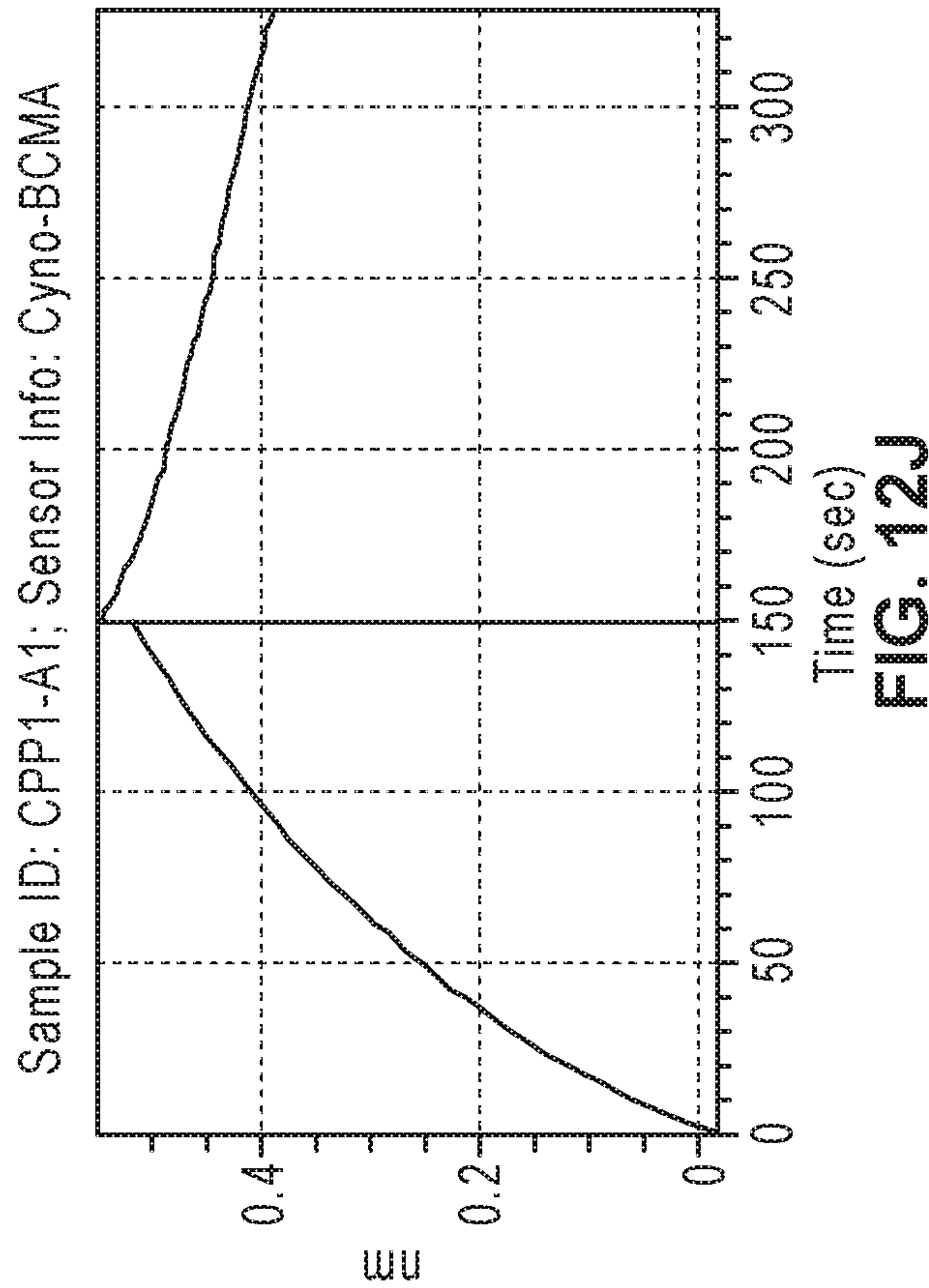


FIG. 12G



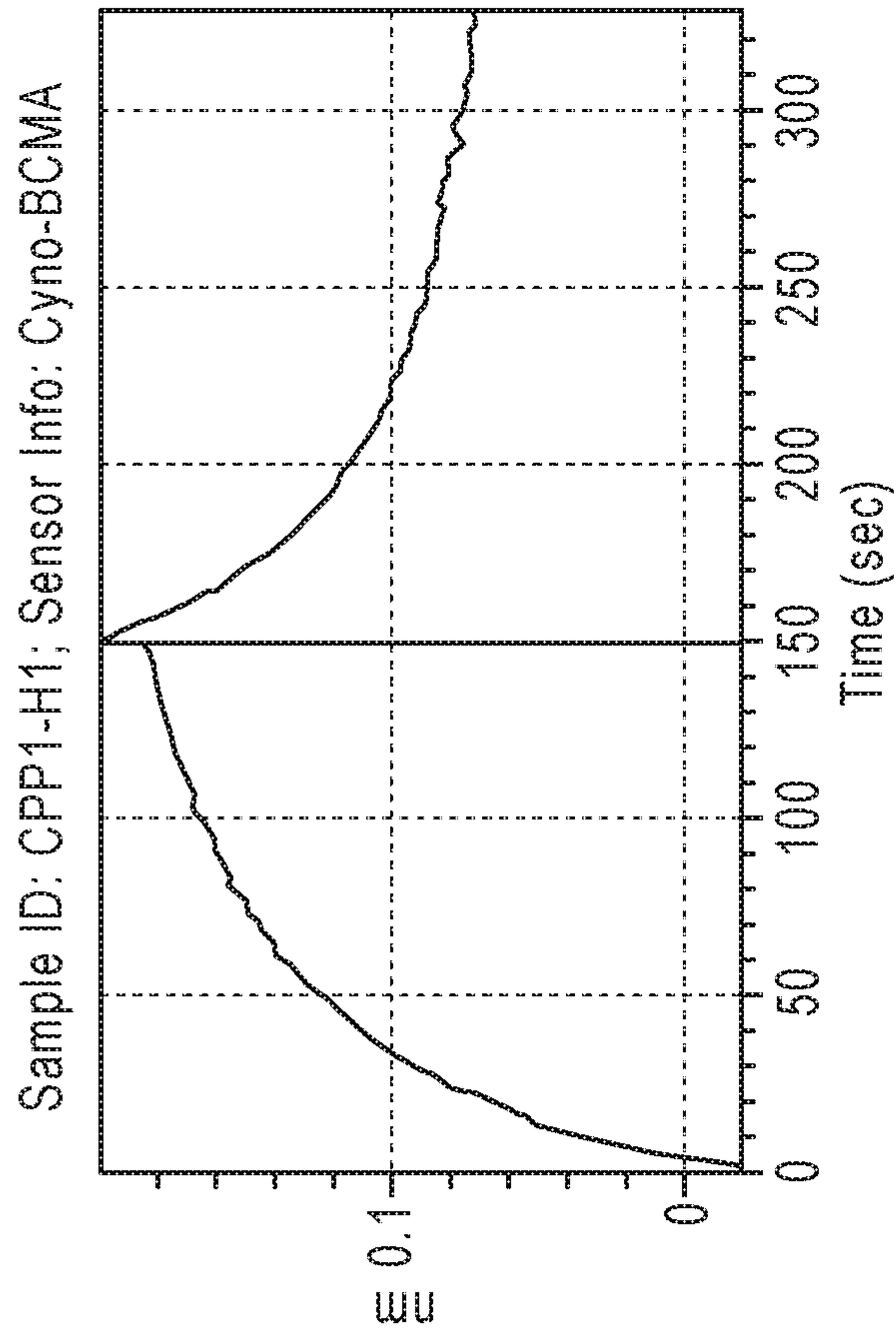


FIG. 12N

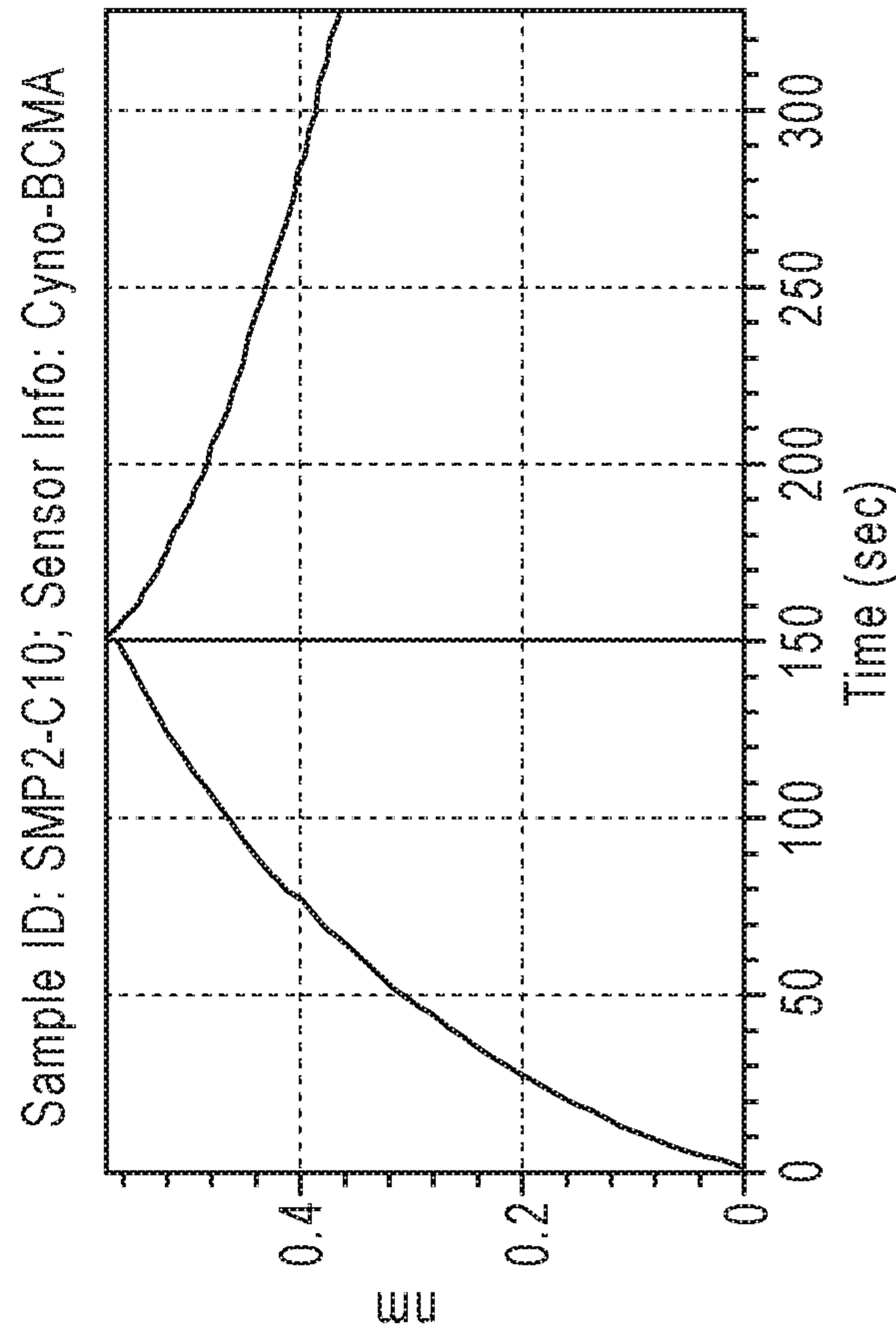


FIG. 12P

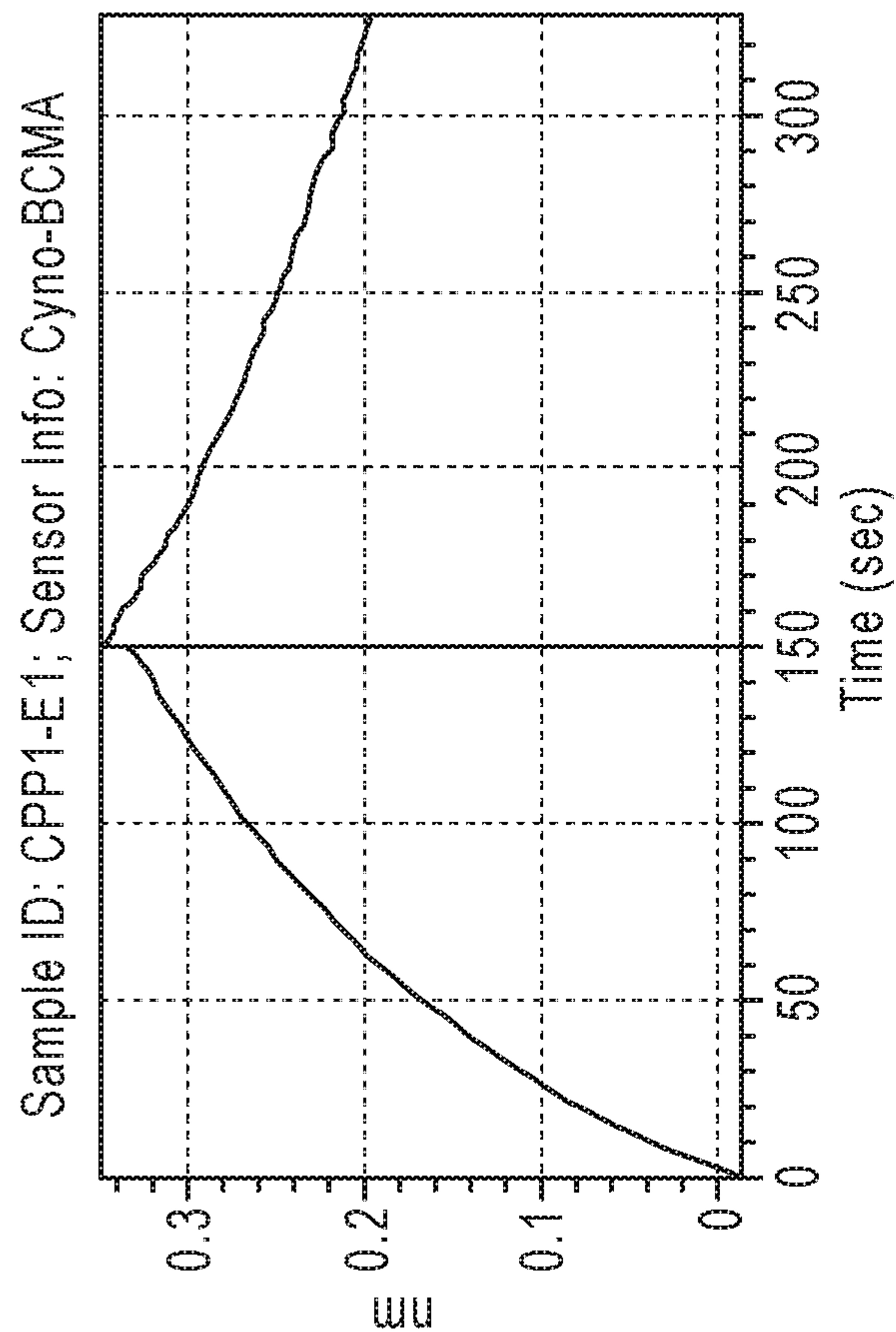


FIG. 12M

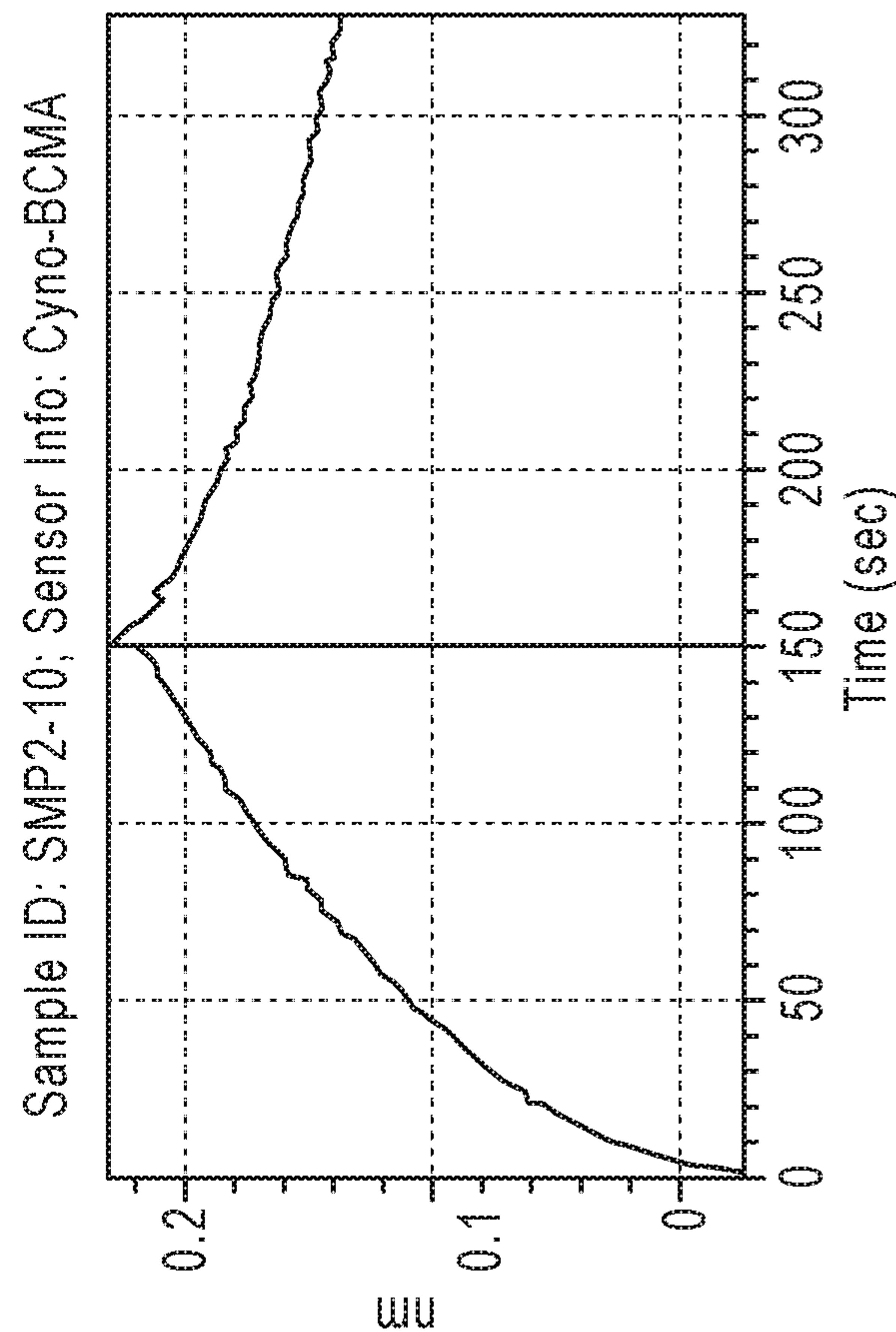


FIG. 12O

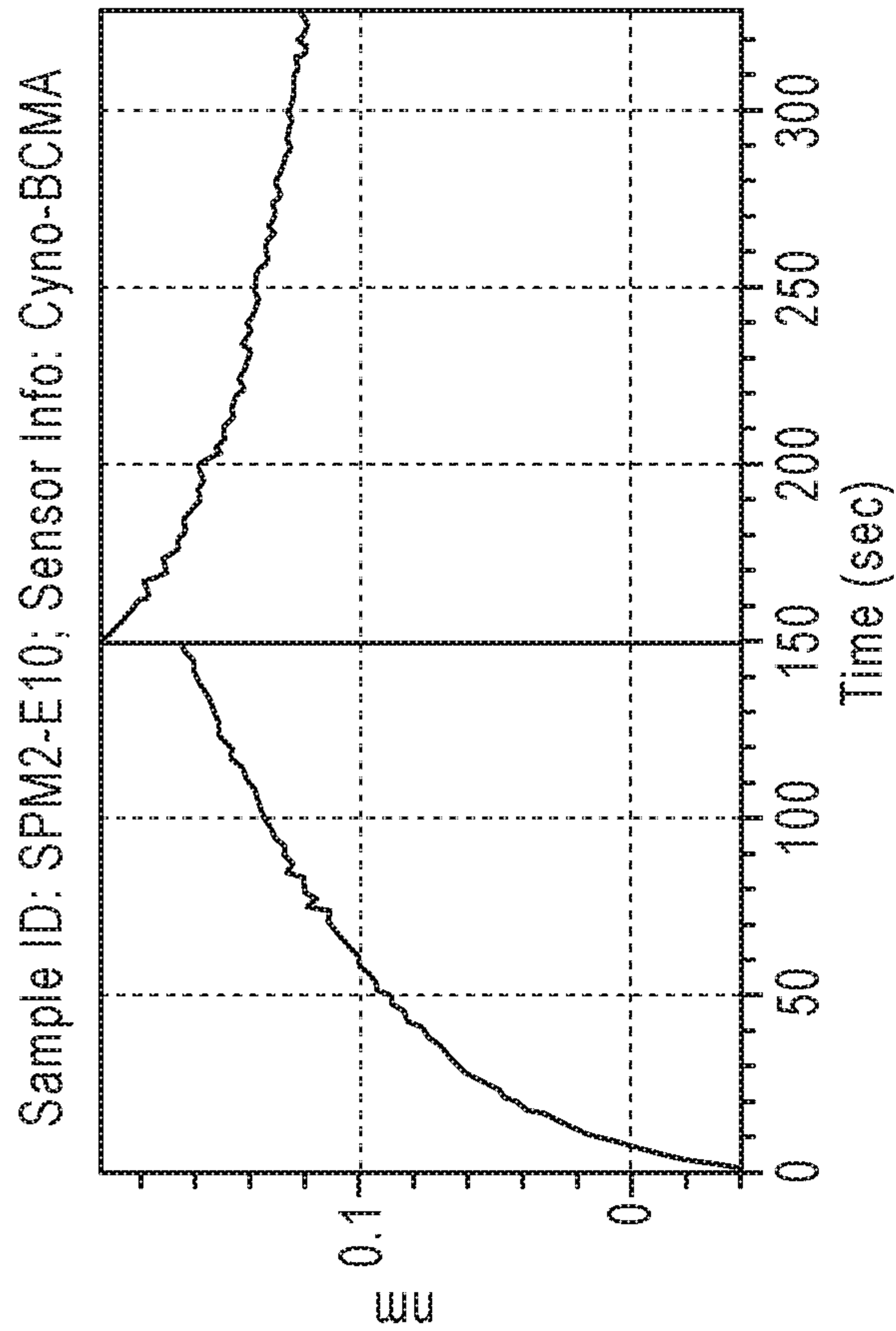


FIG. 12Q

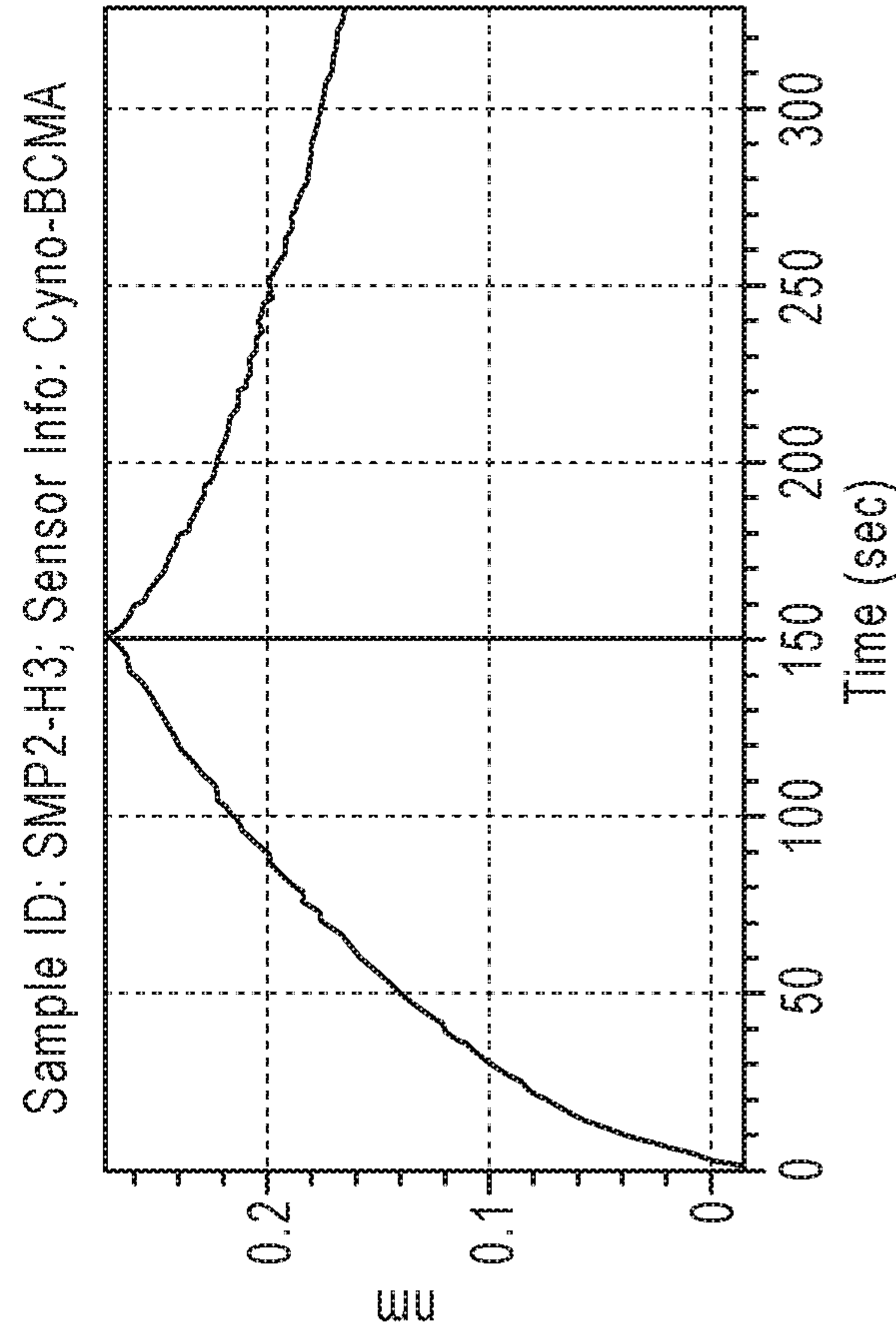


FIG. 12S

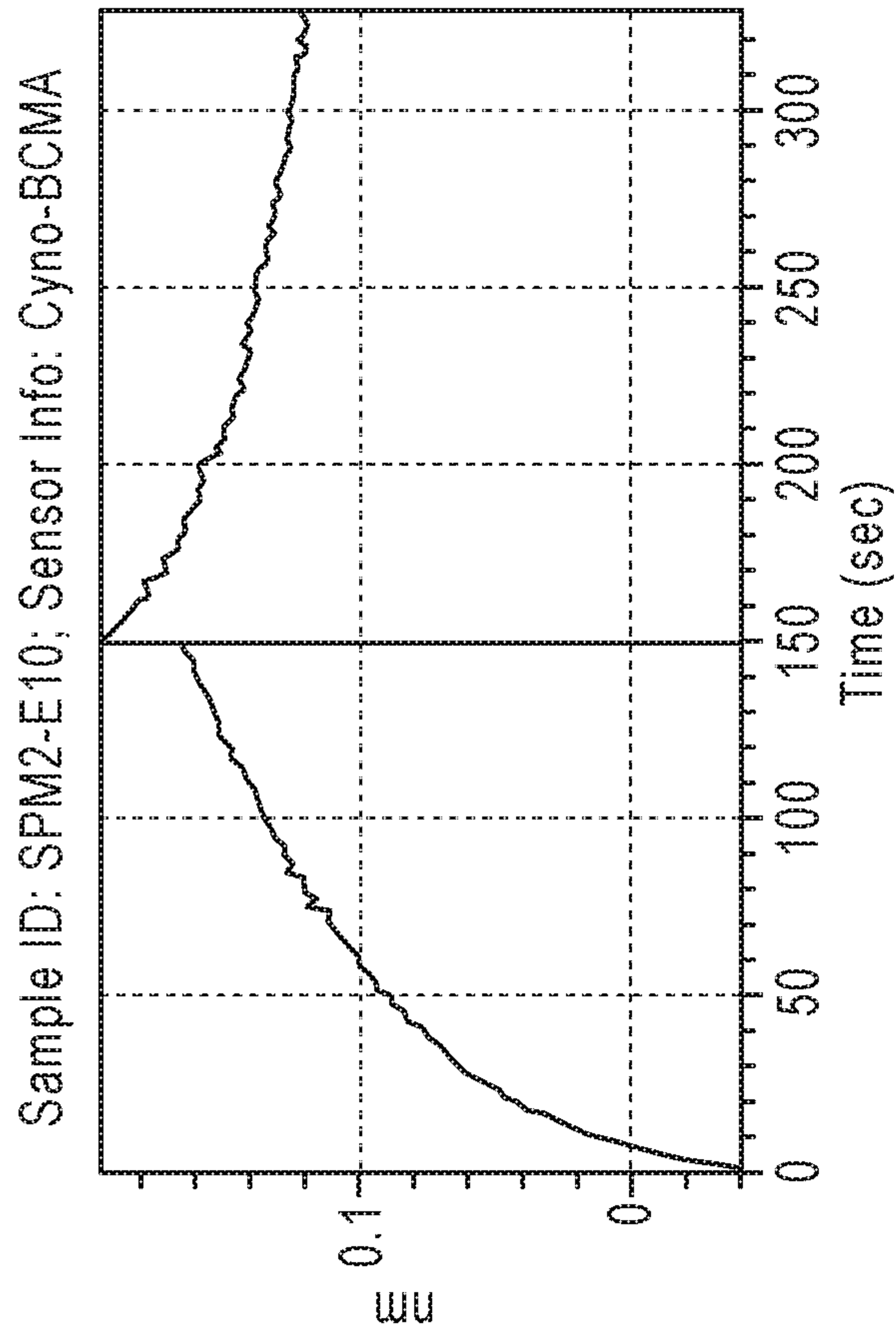


FIG. 12R

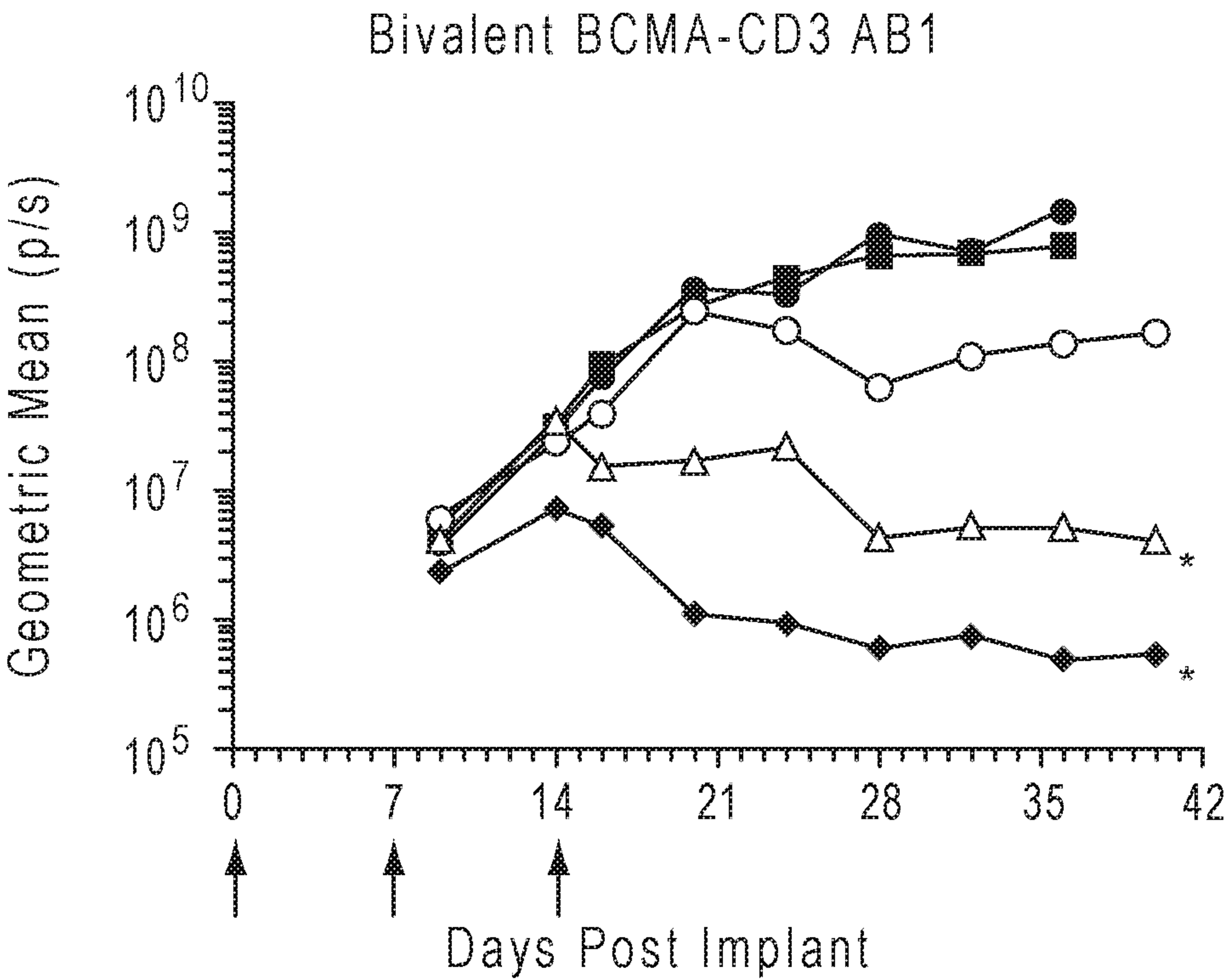


FIG. 13A

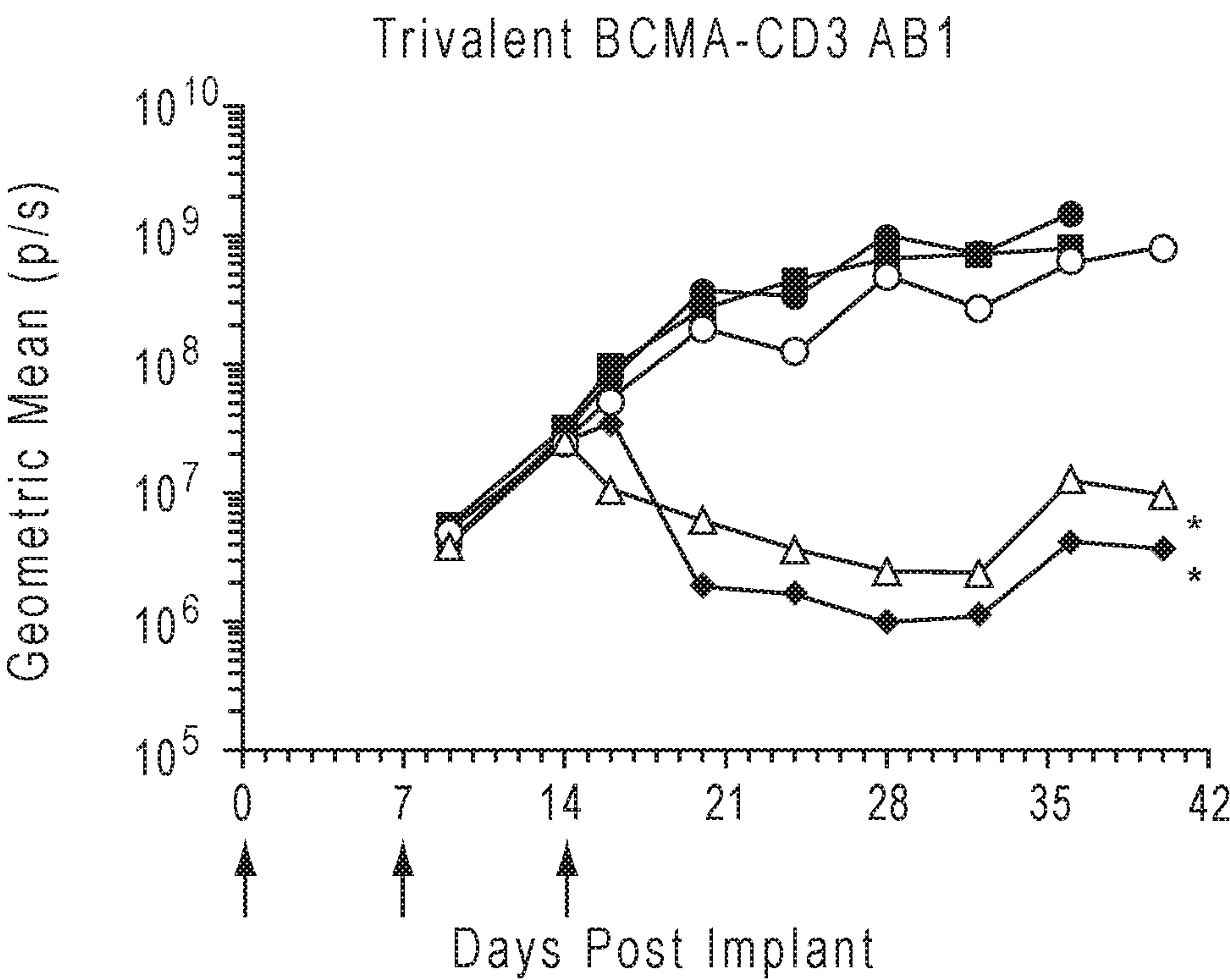


FIG. 13B

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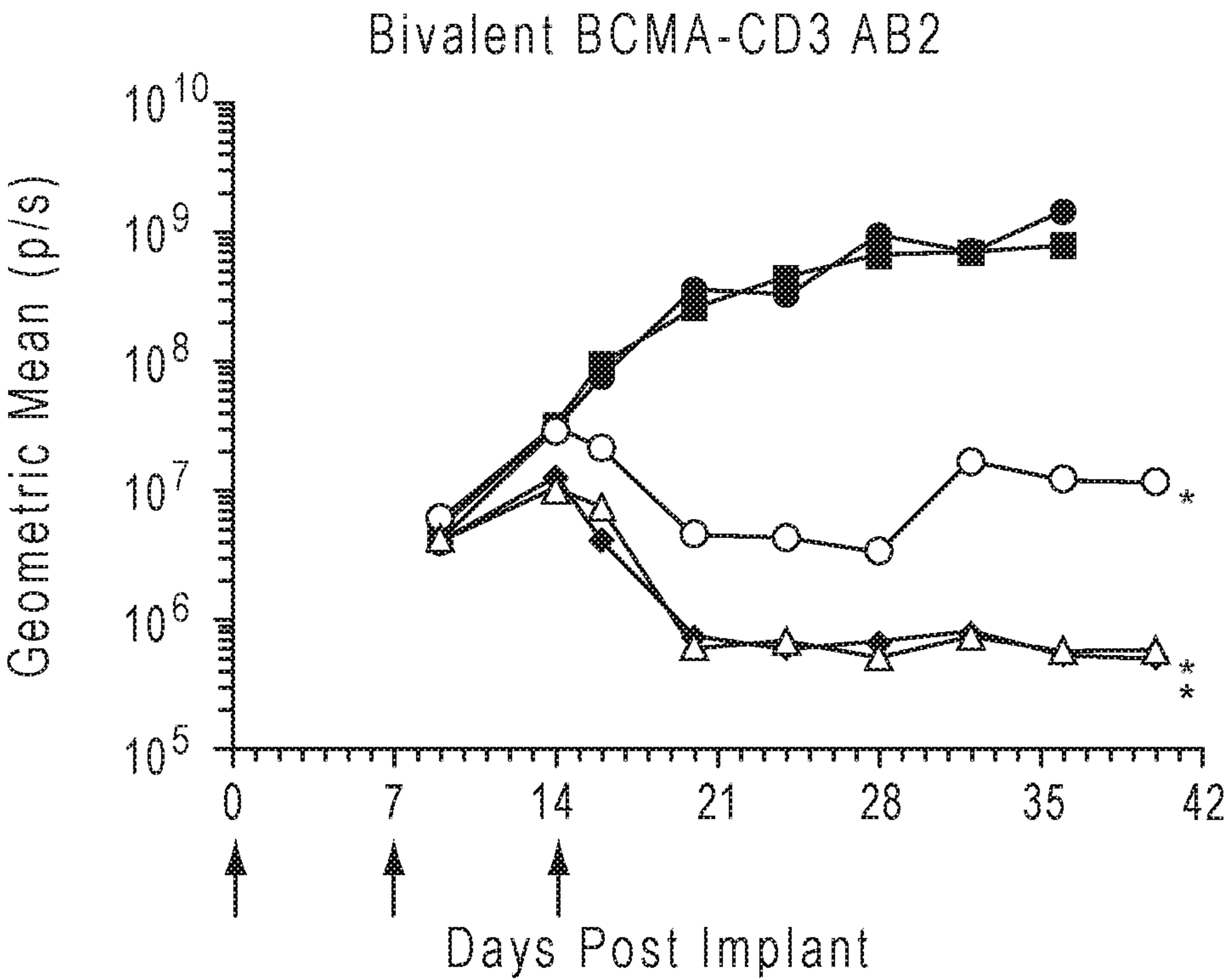


FIG. 13C

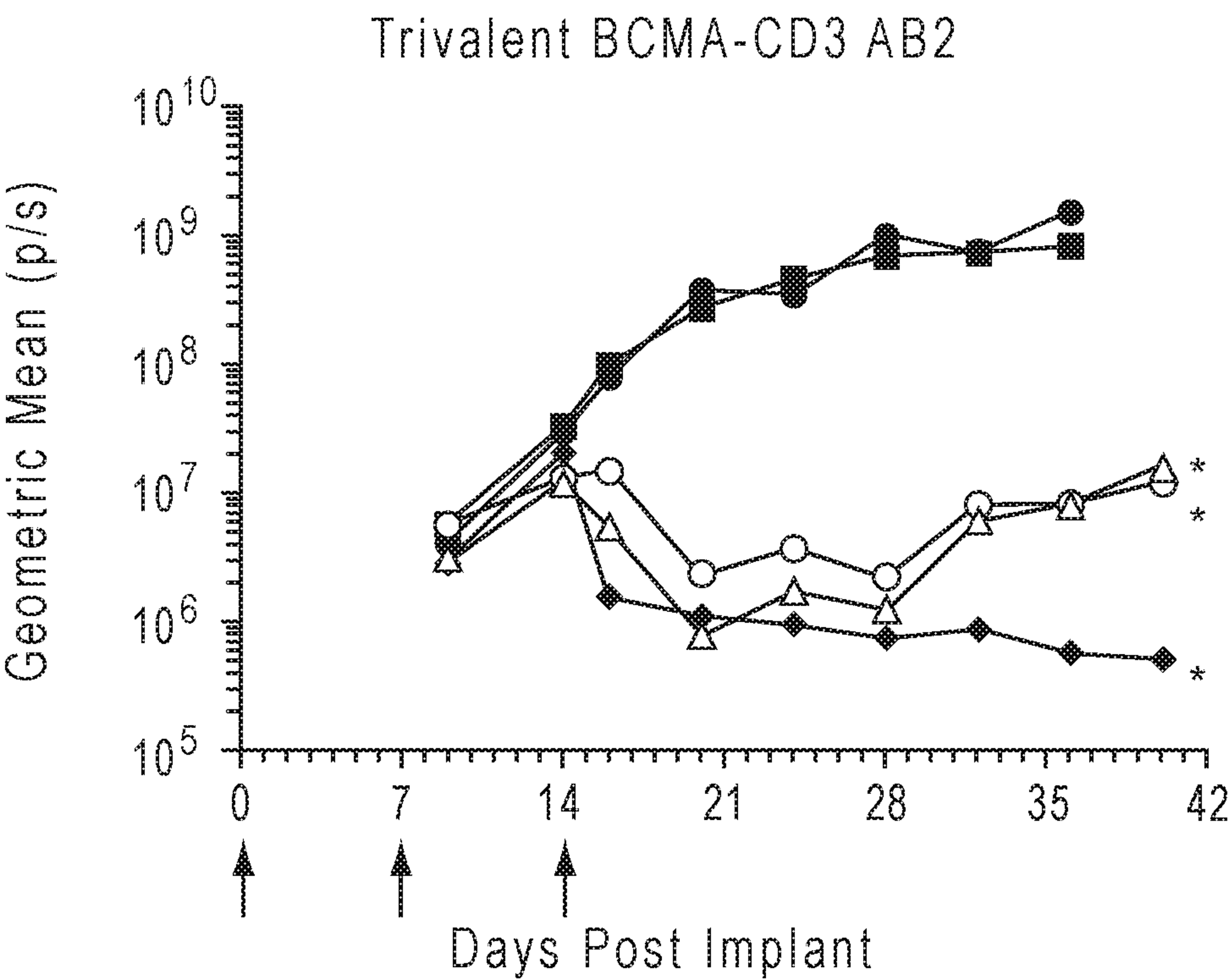


FIG. 13D

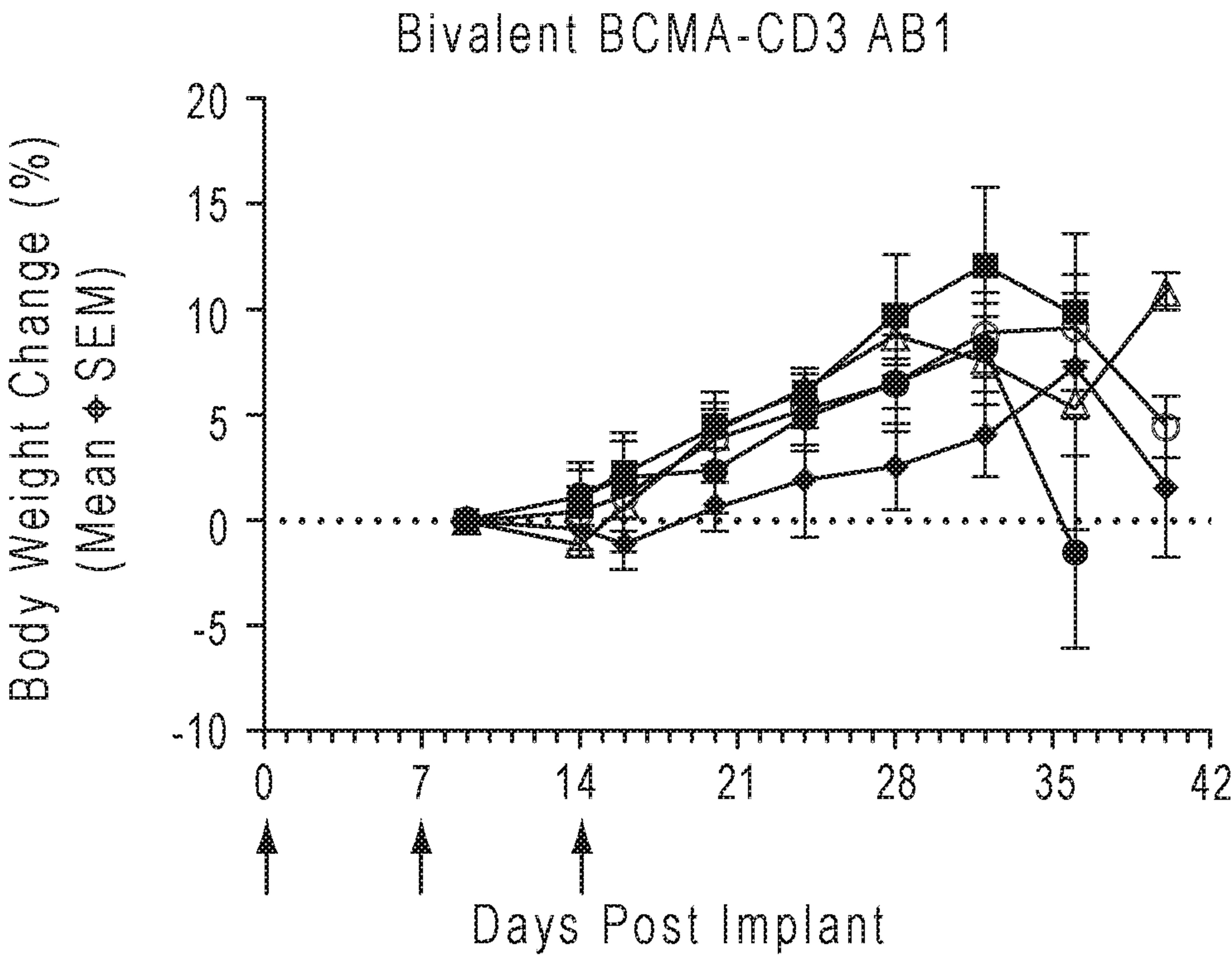


FIG. 14A

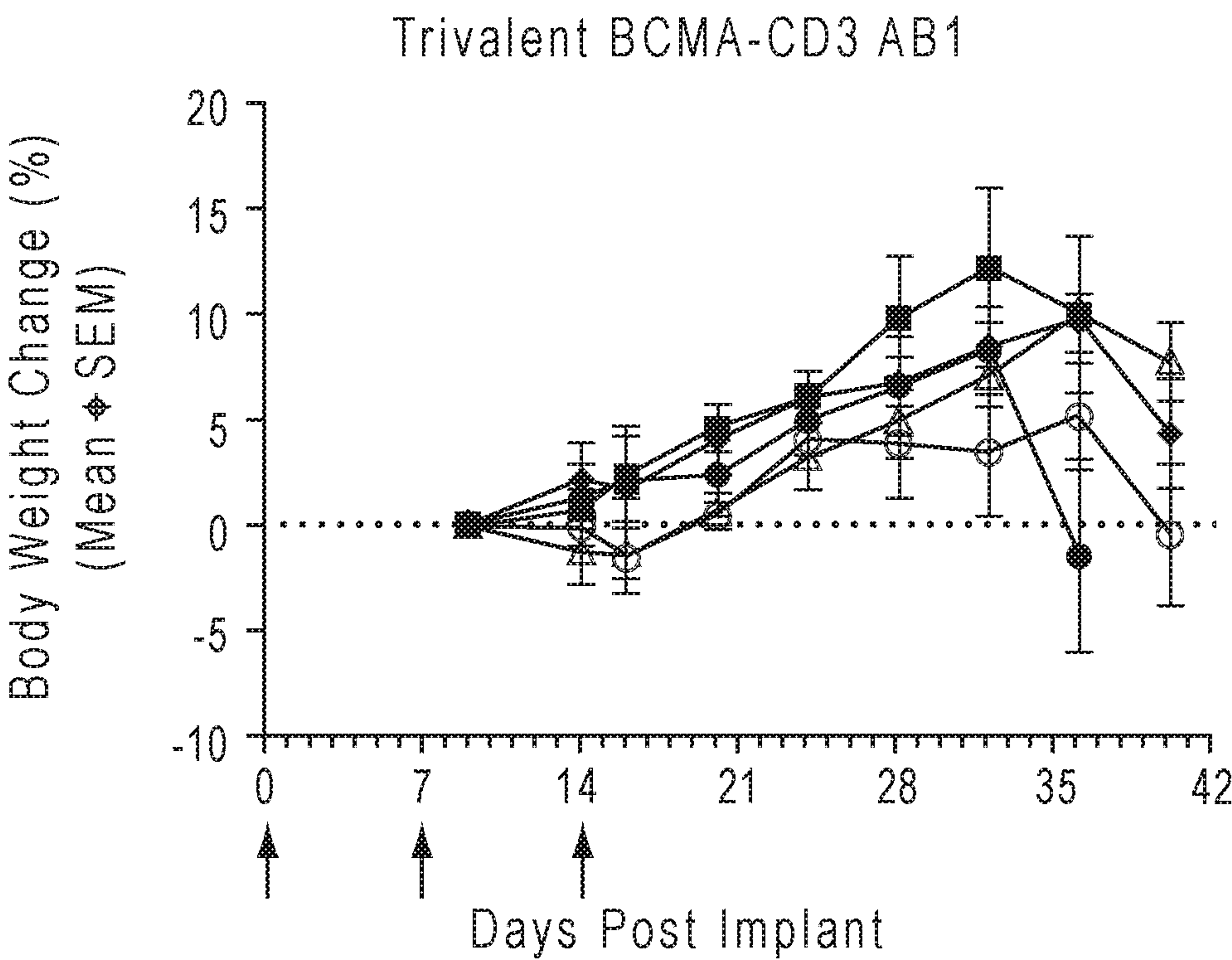


FIG. 14B

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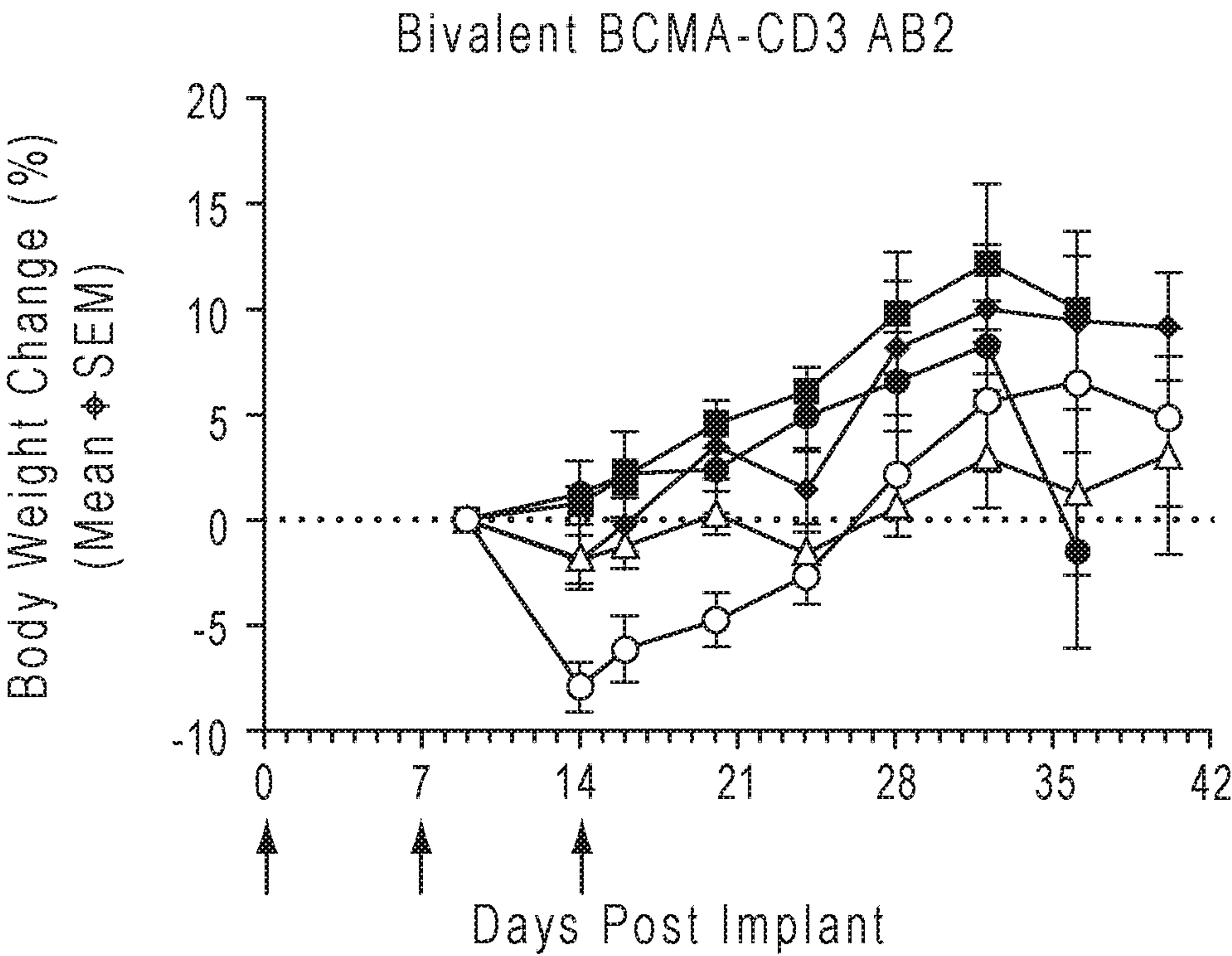


FIG. 14C

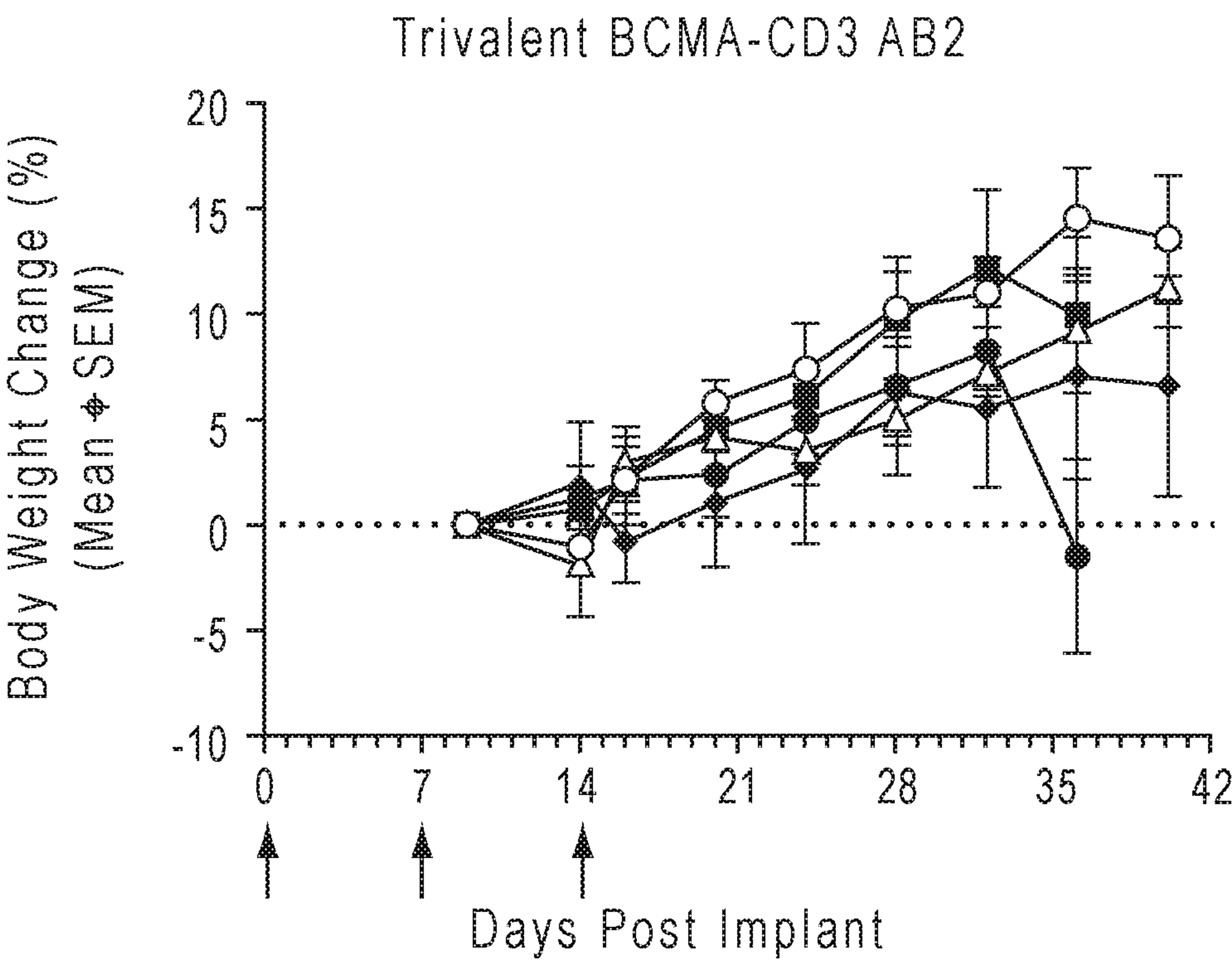


FIG. 14D

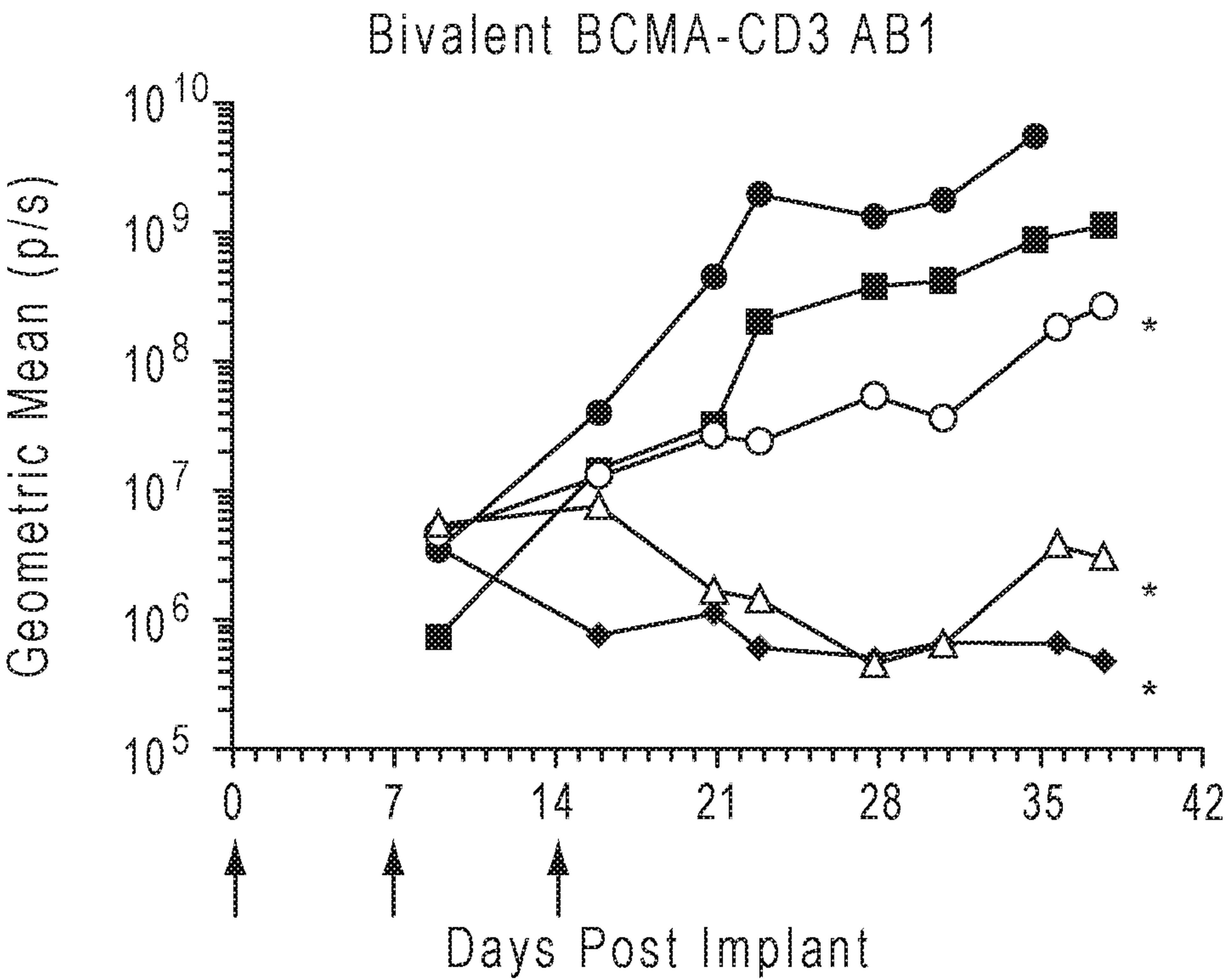


FIG. 15A

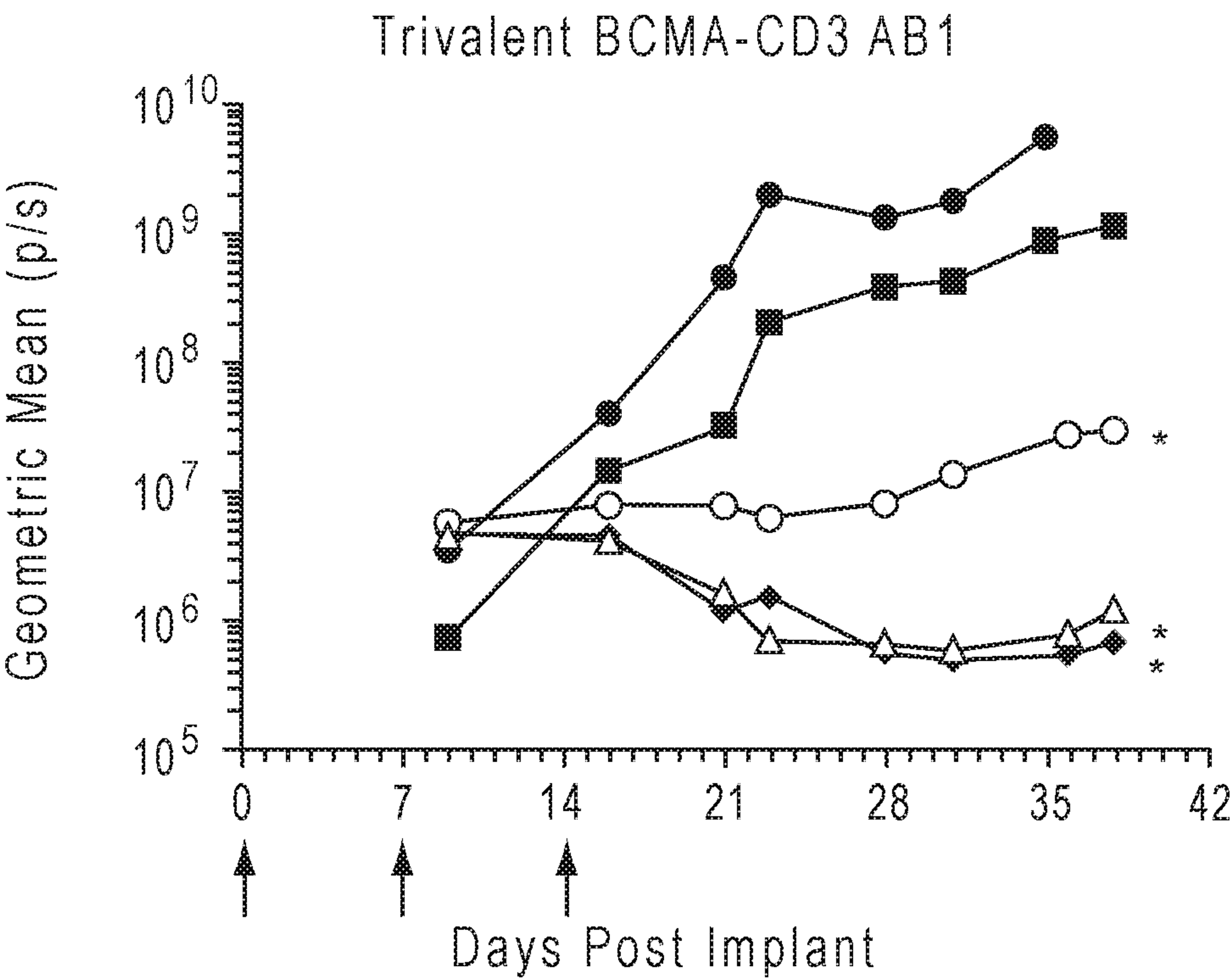


FIG. 15B

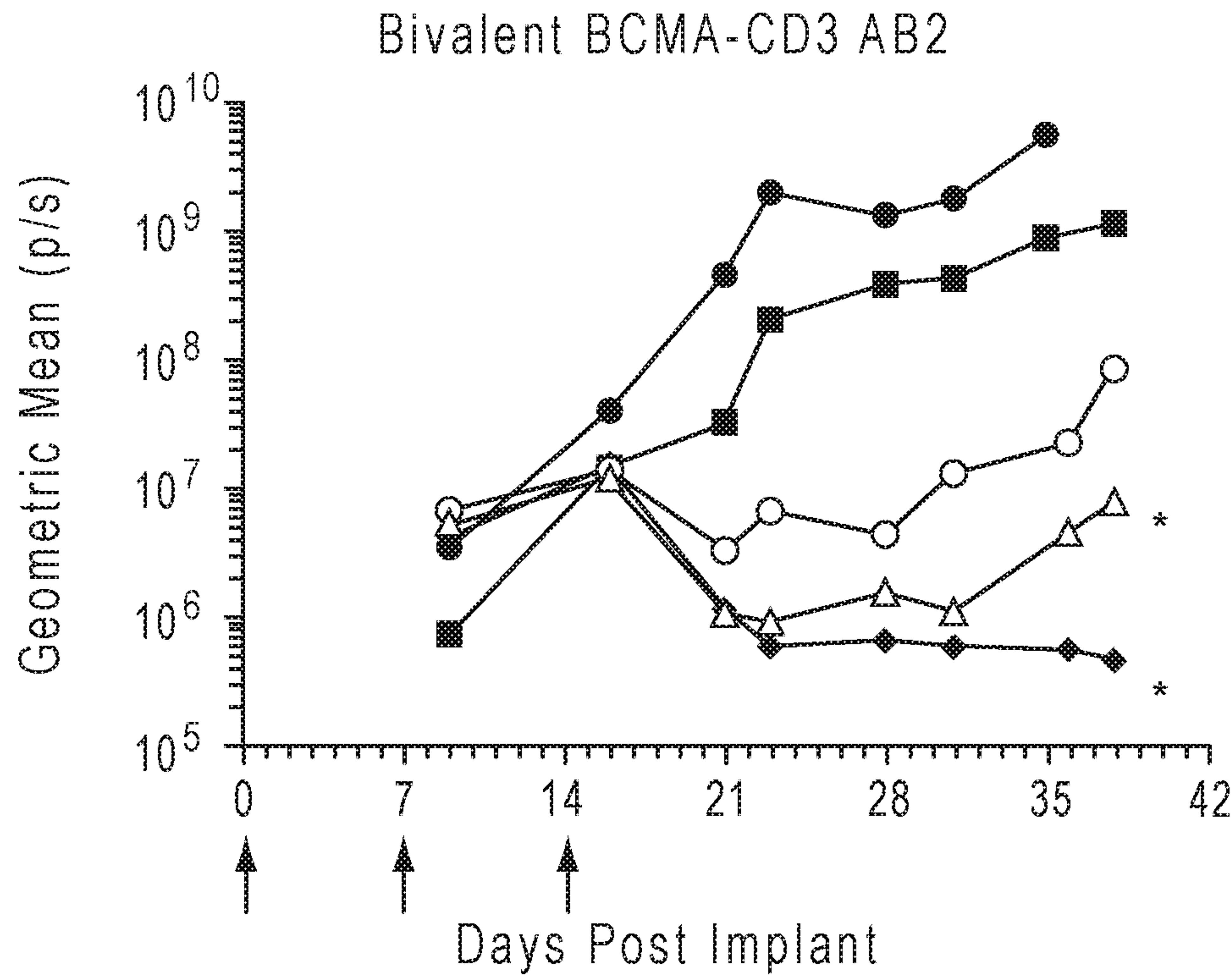


FIG. 15C

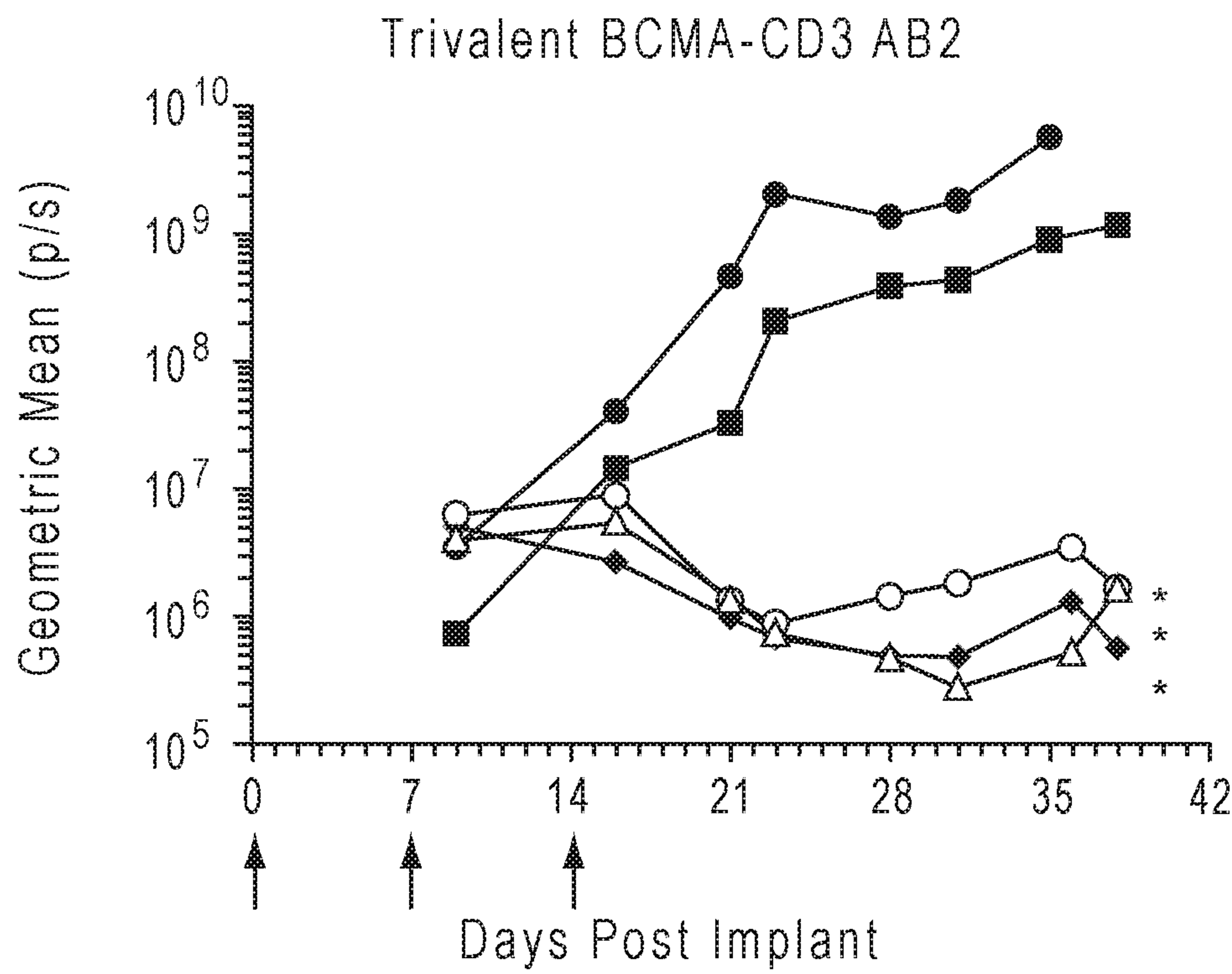


FIG. 15D

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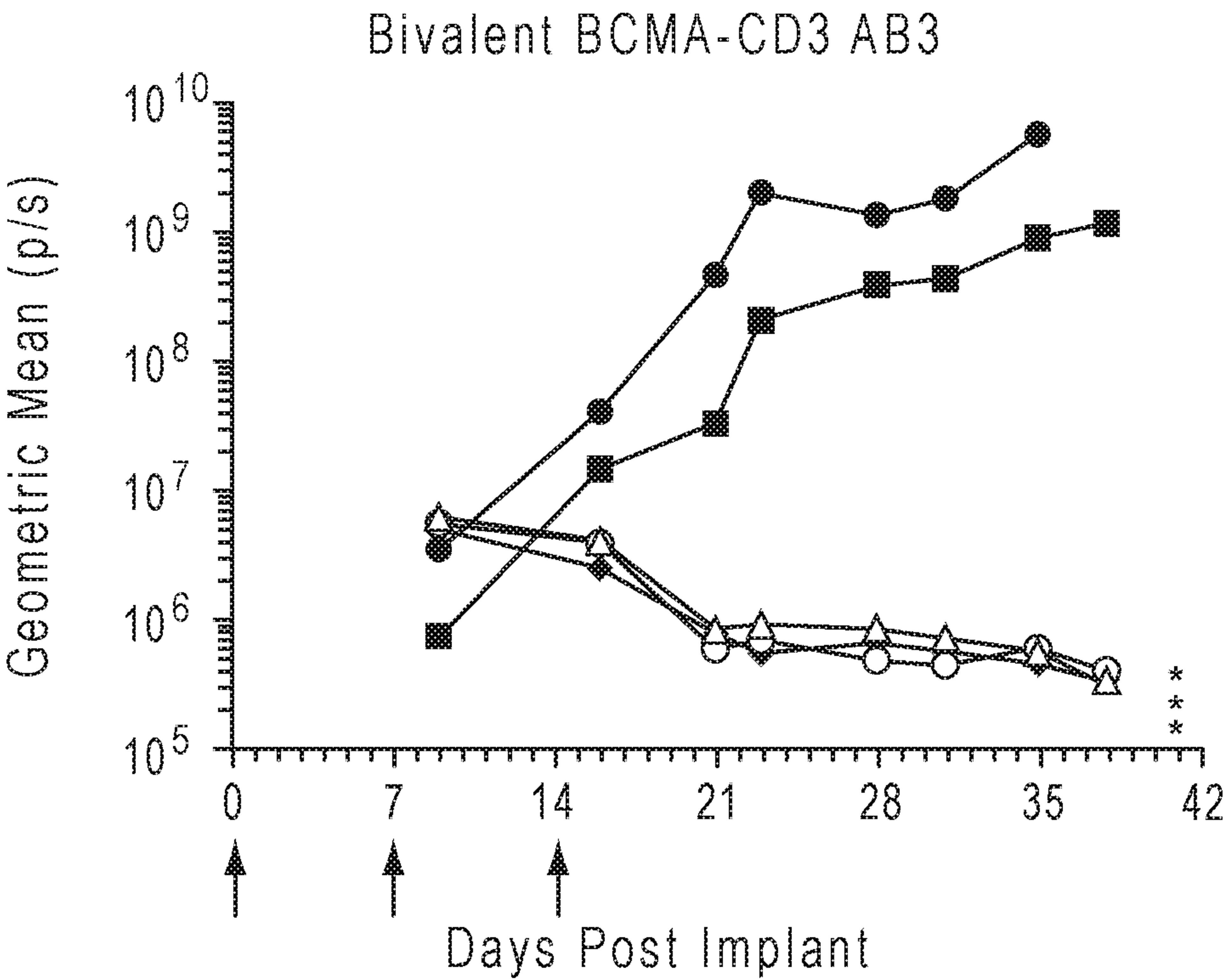


FIG. 15E

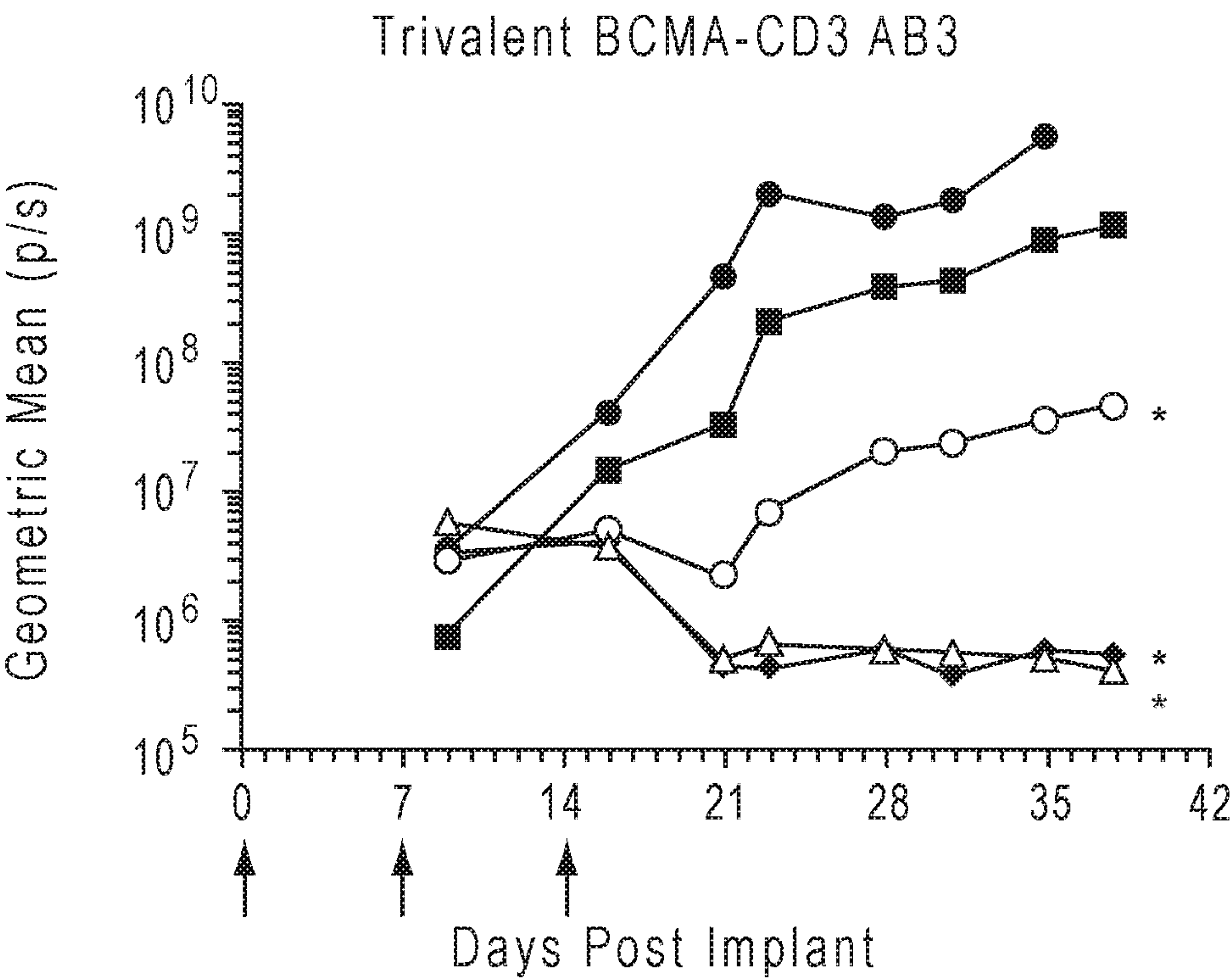


FIG. 15F

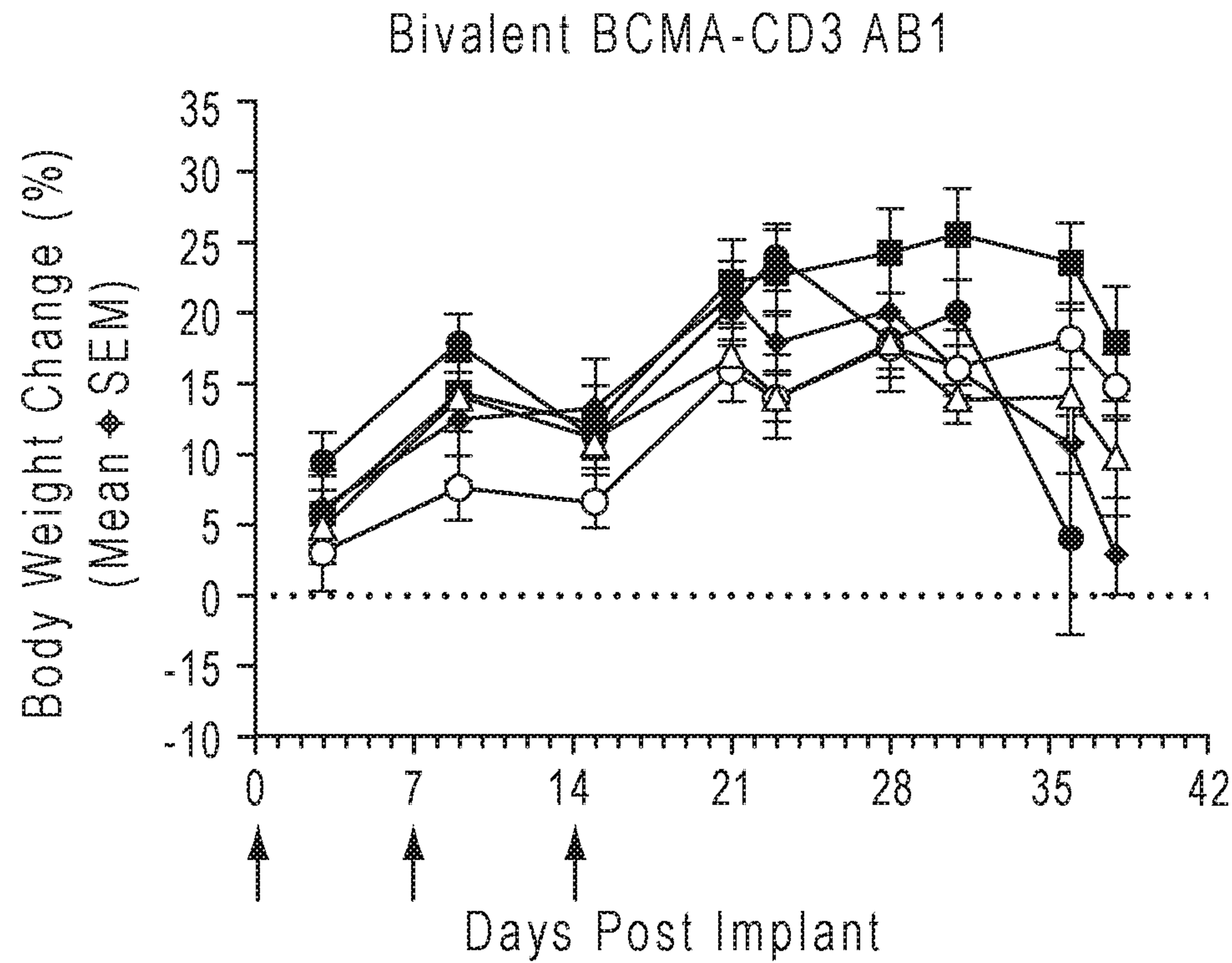


FIG. 16A

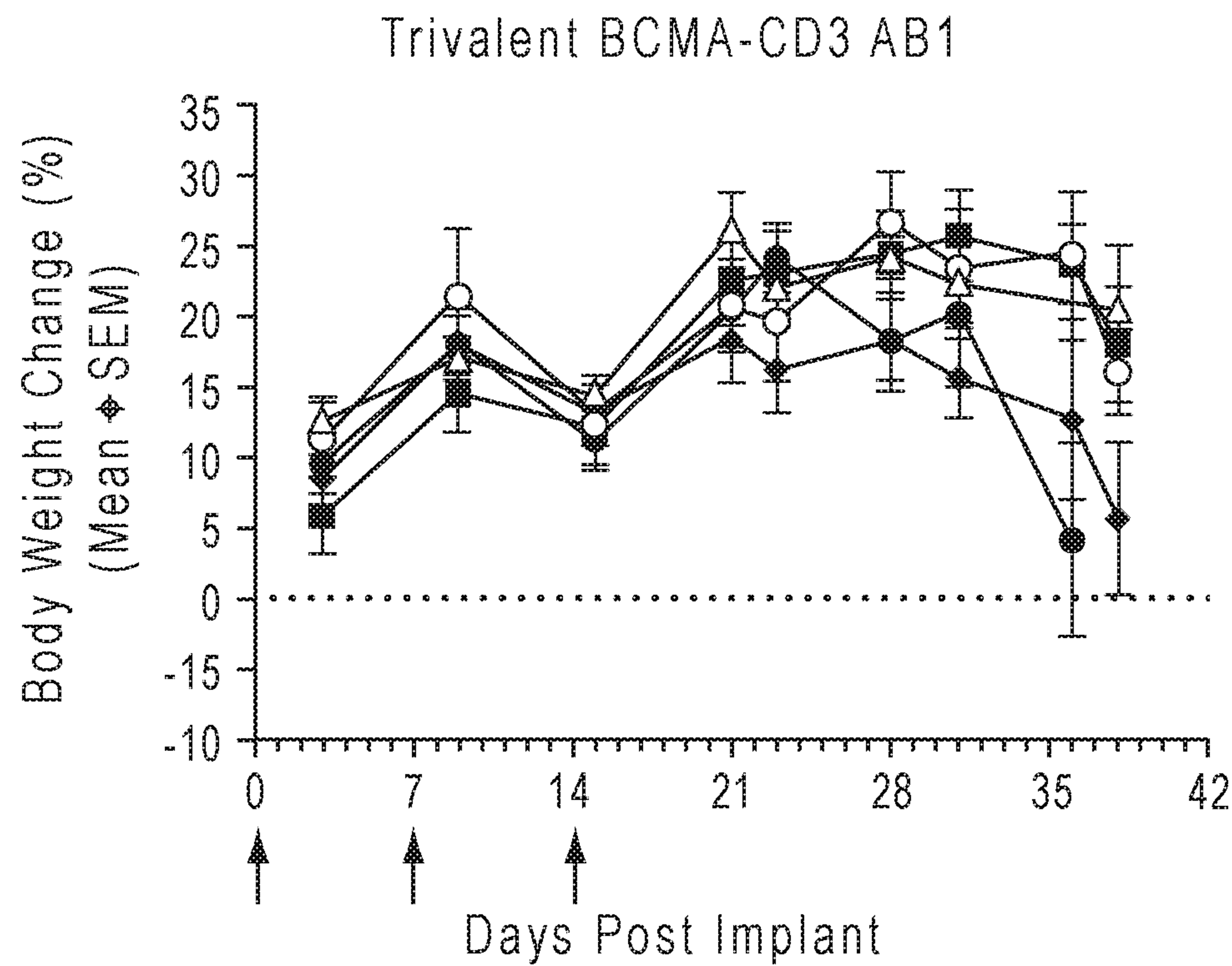


FIG. 16B

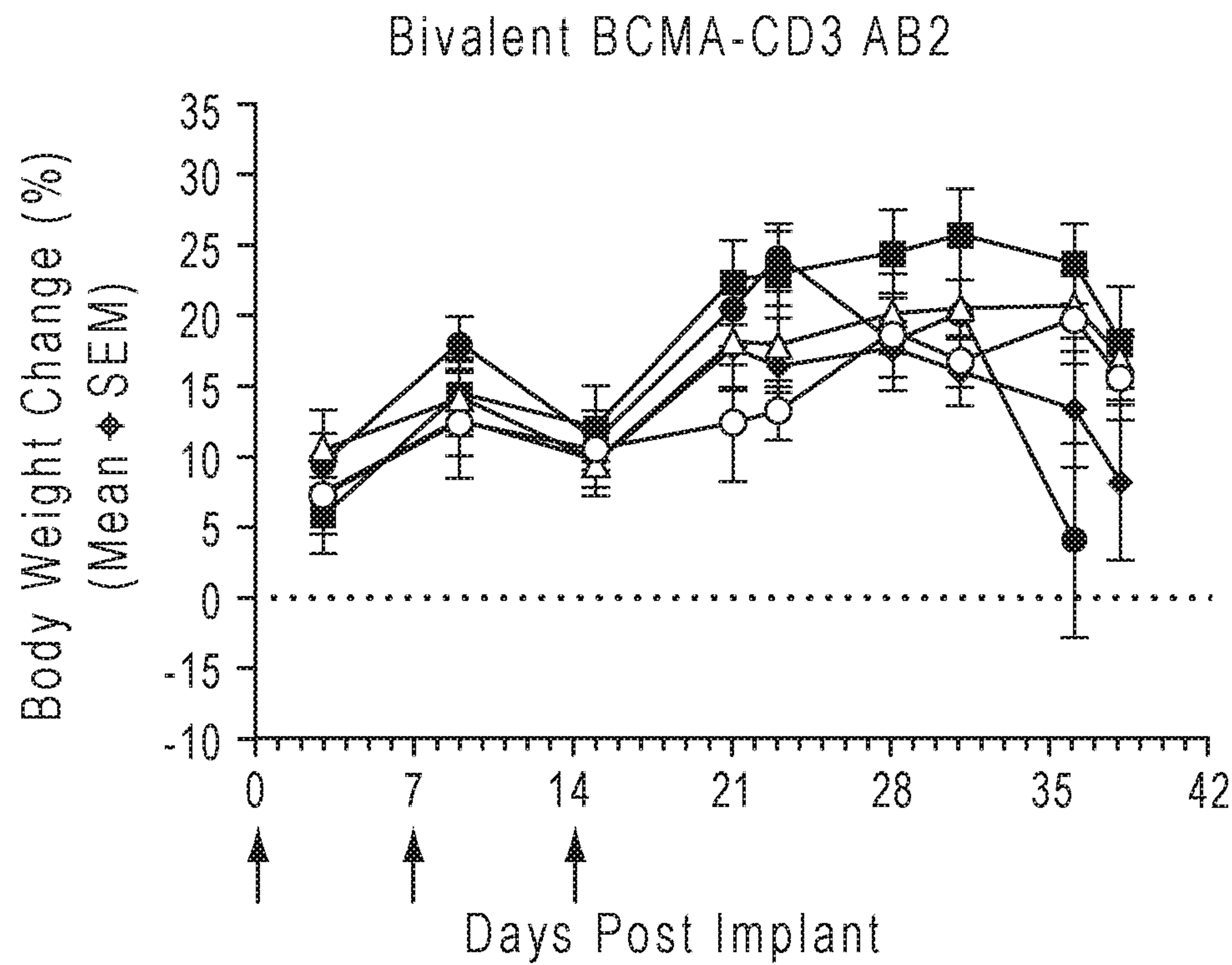


FIG. 16C

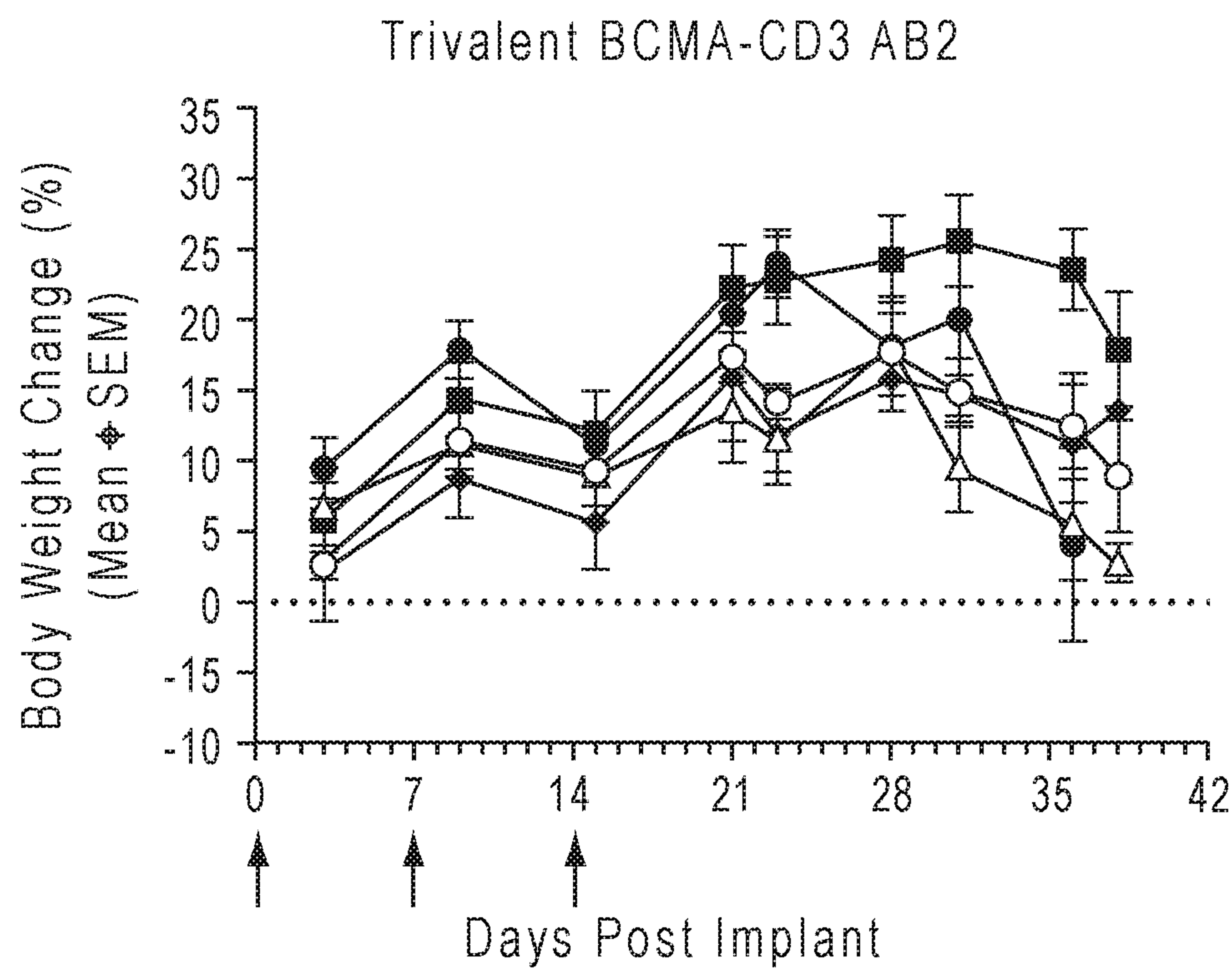


FIG. 16D

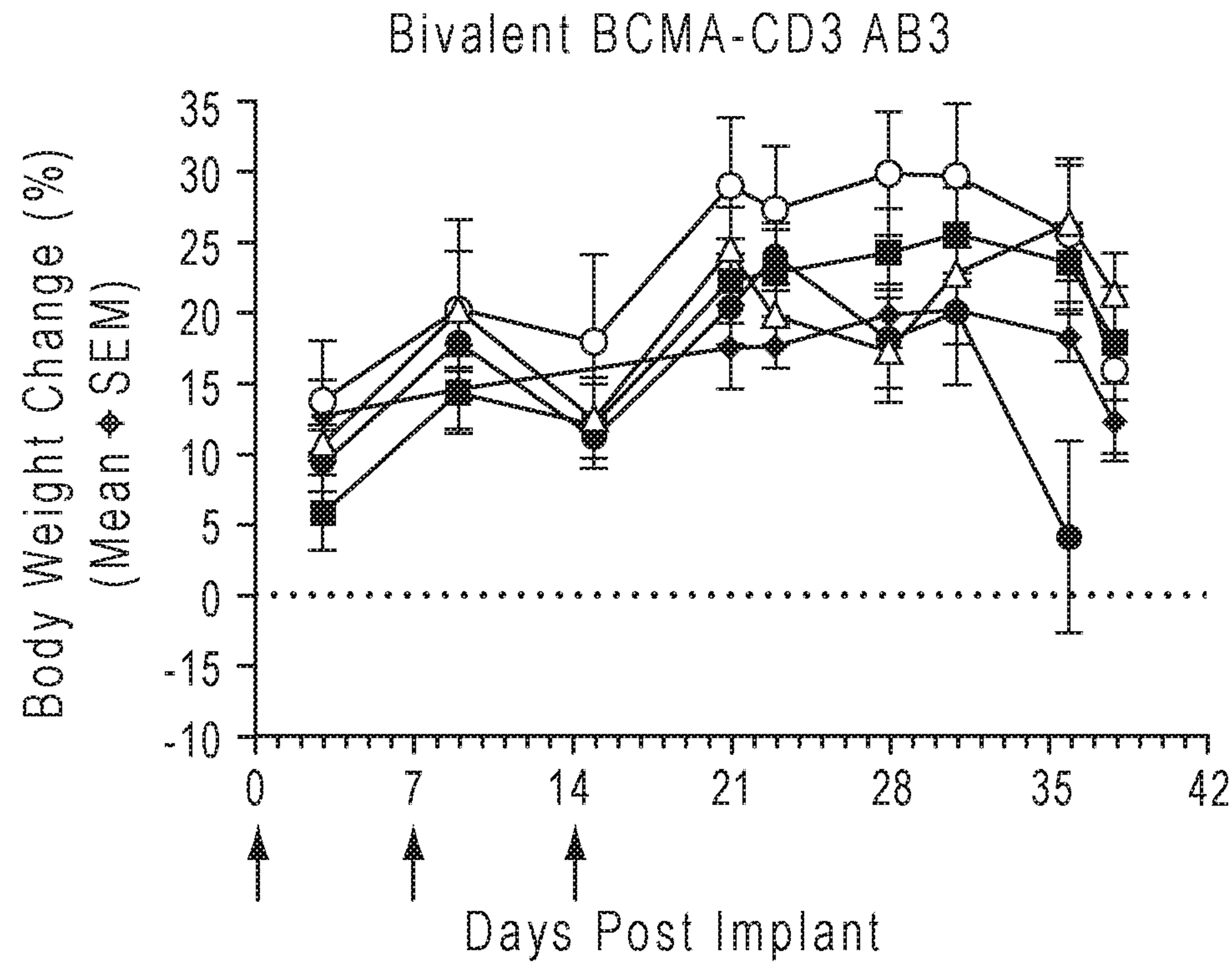


FIG. 16E

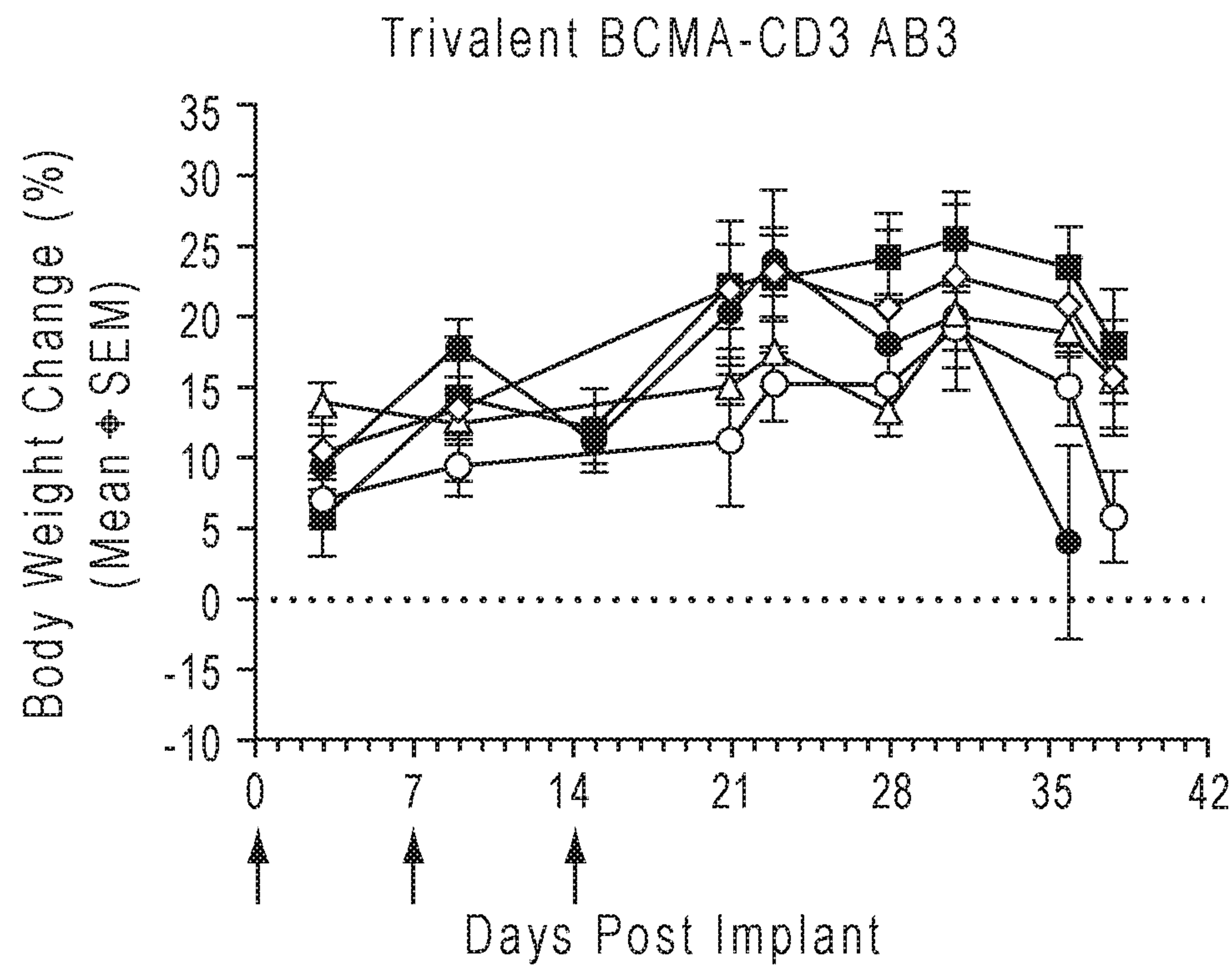
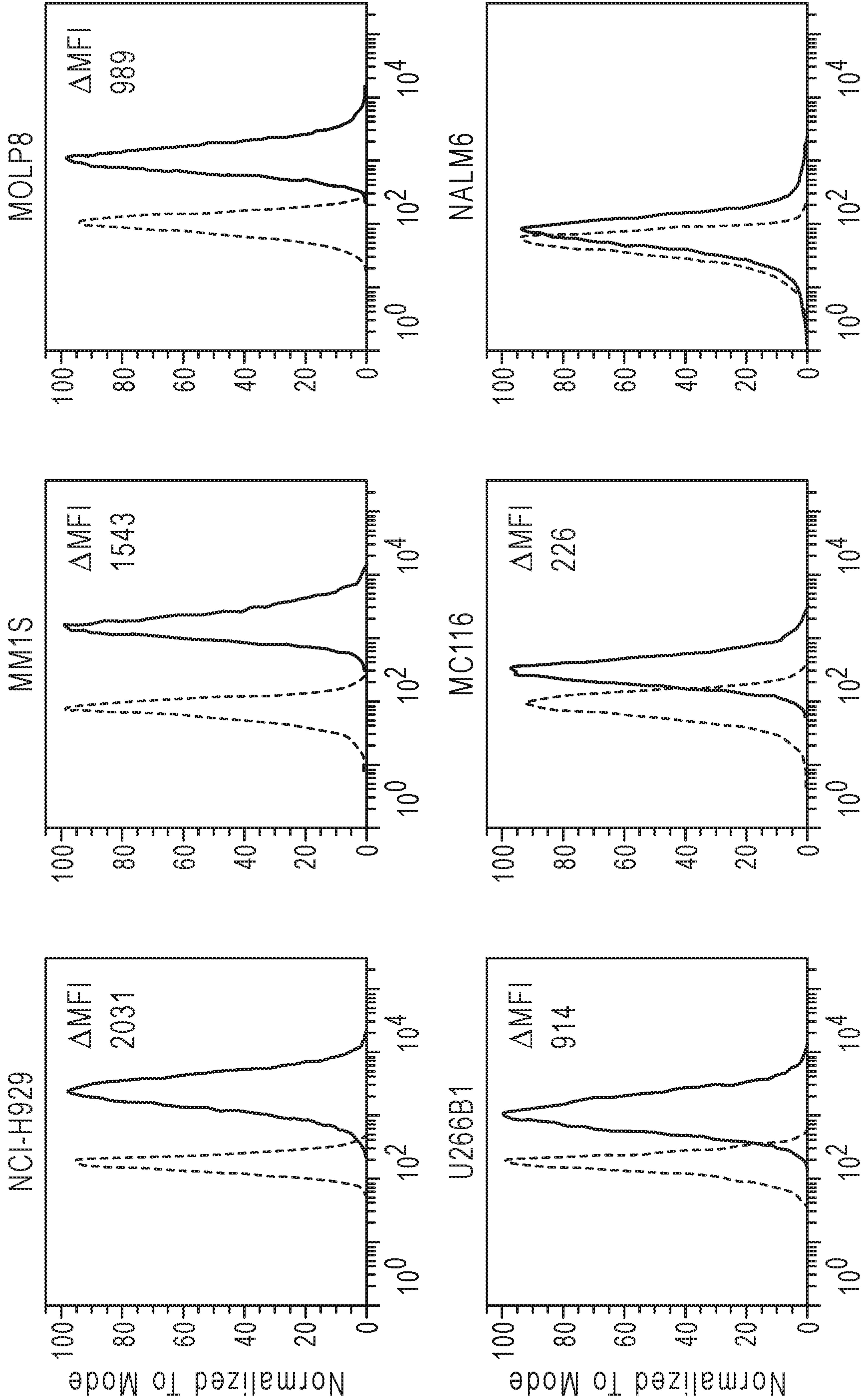


FIG. 16F



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FIG. 17

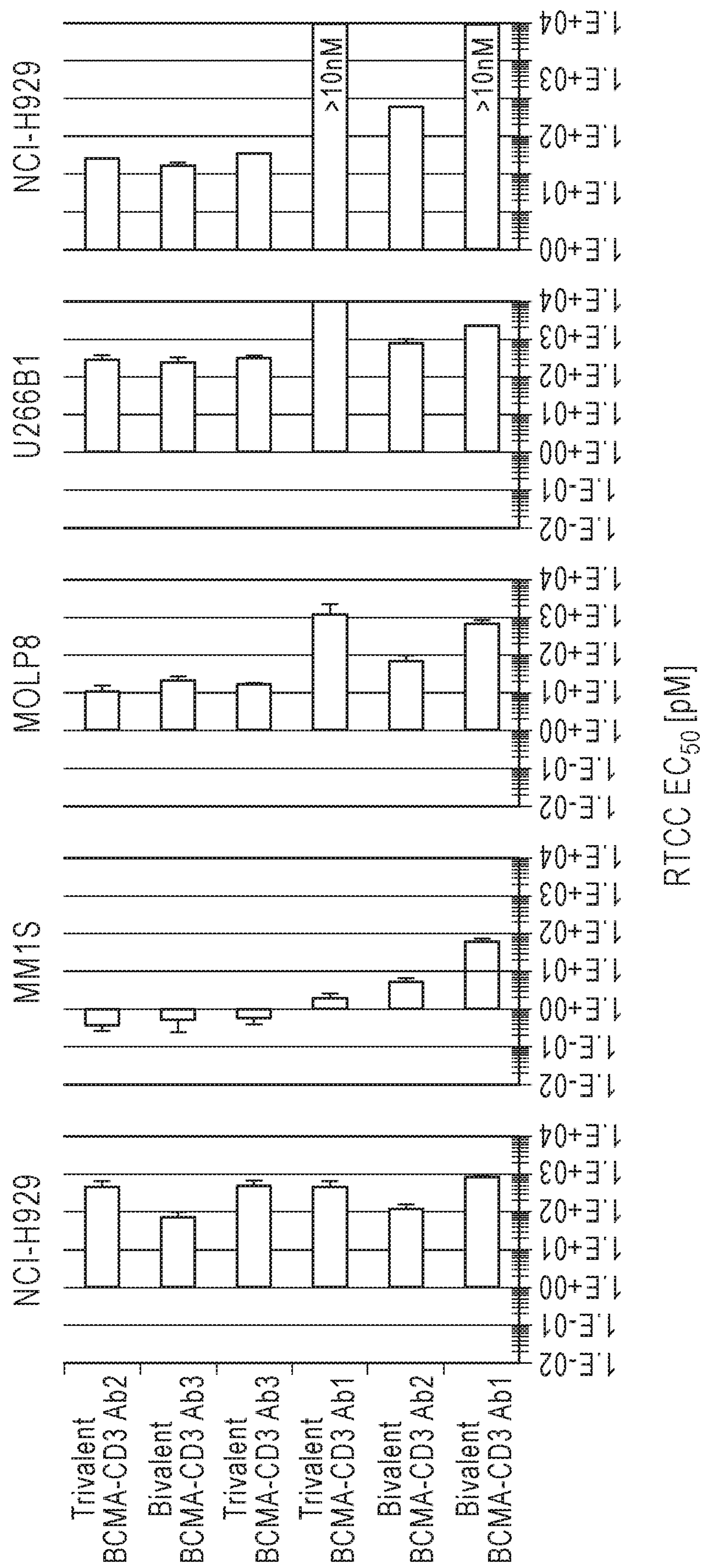


FIG. 18

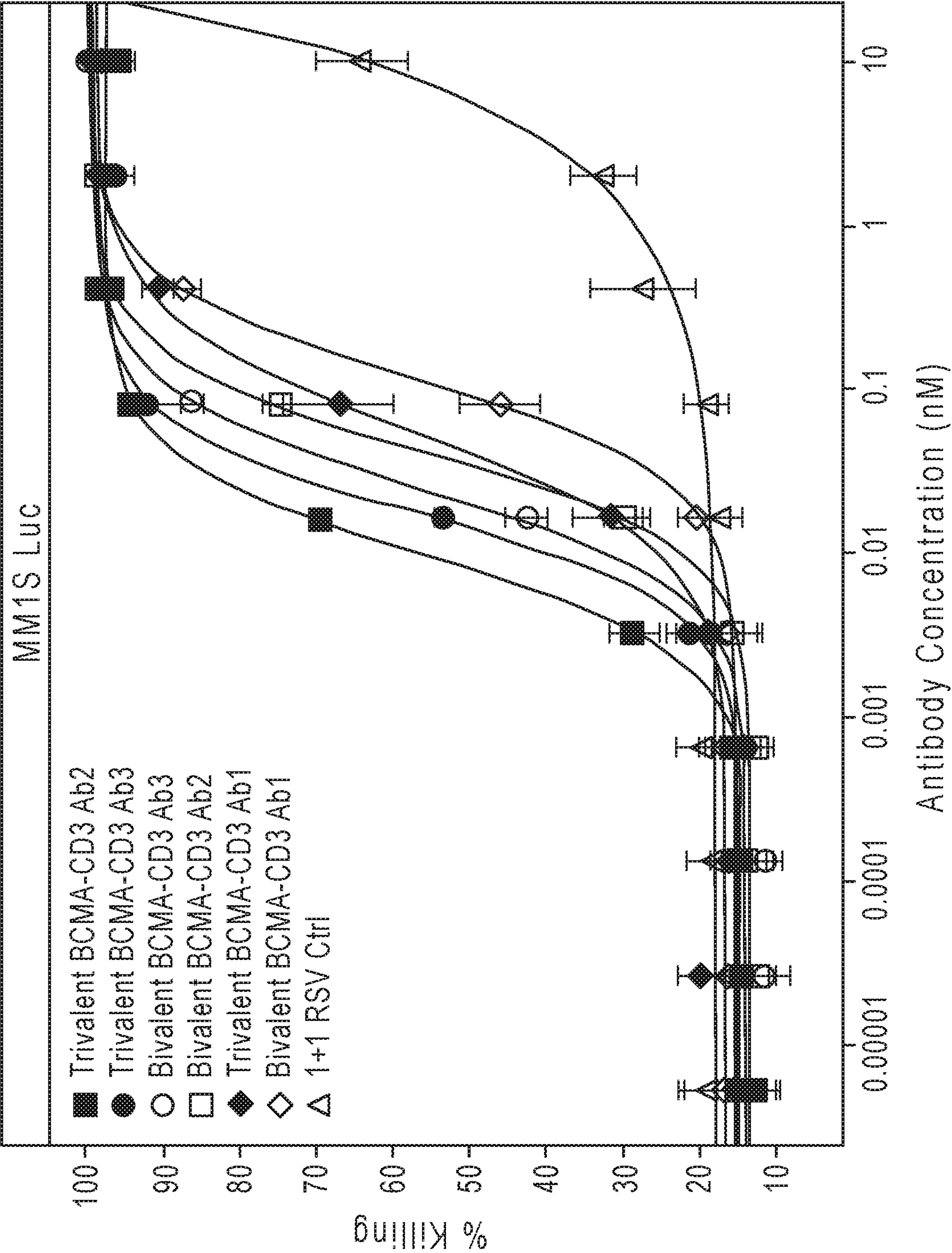


FIG. 19A

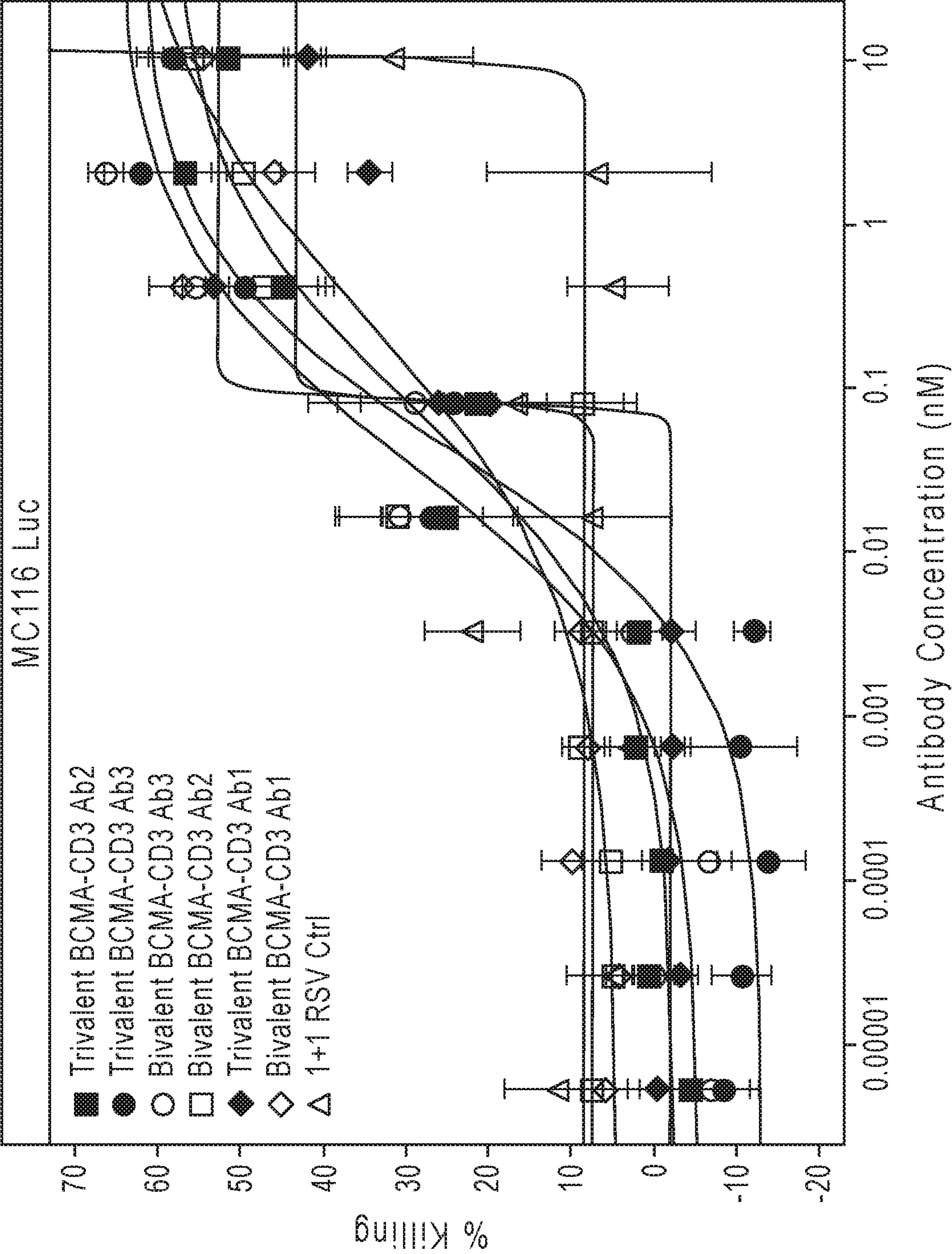


FIG. 19B

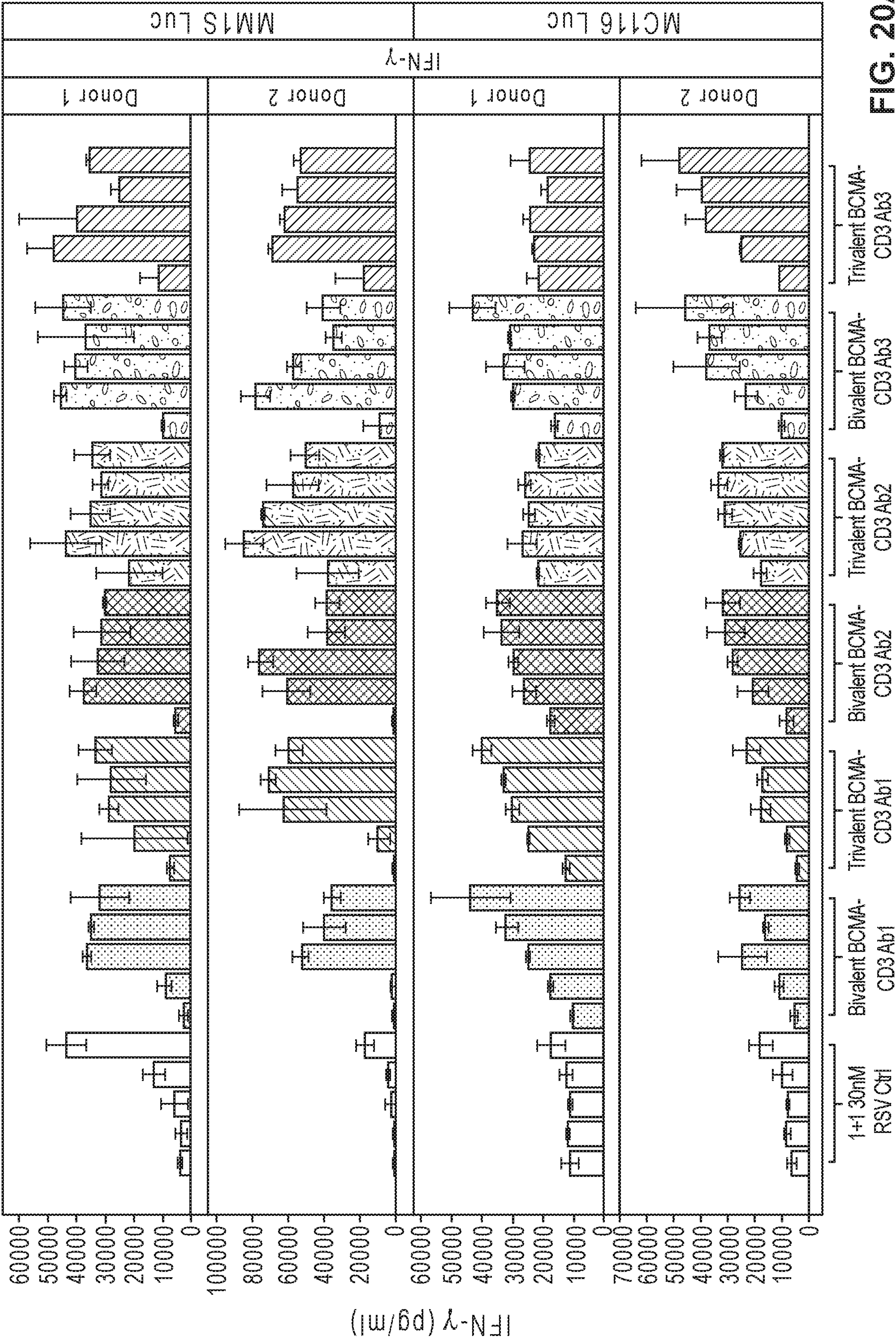


FIG. 20A

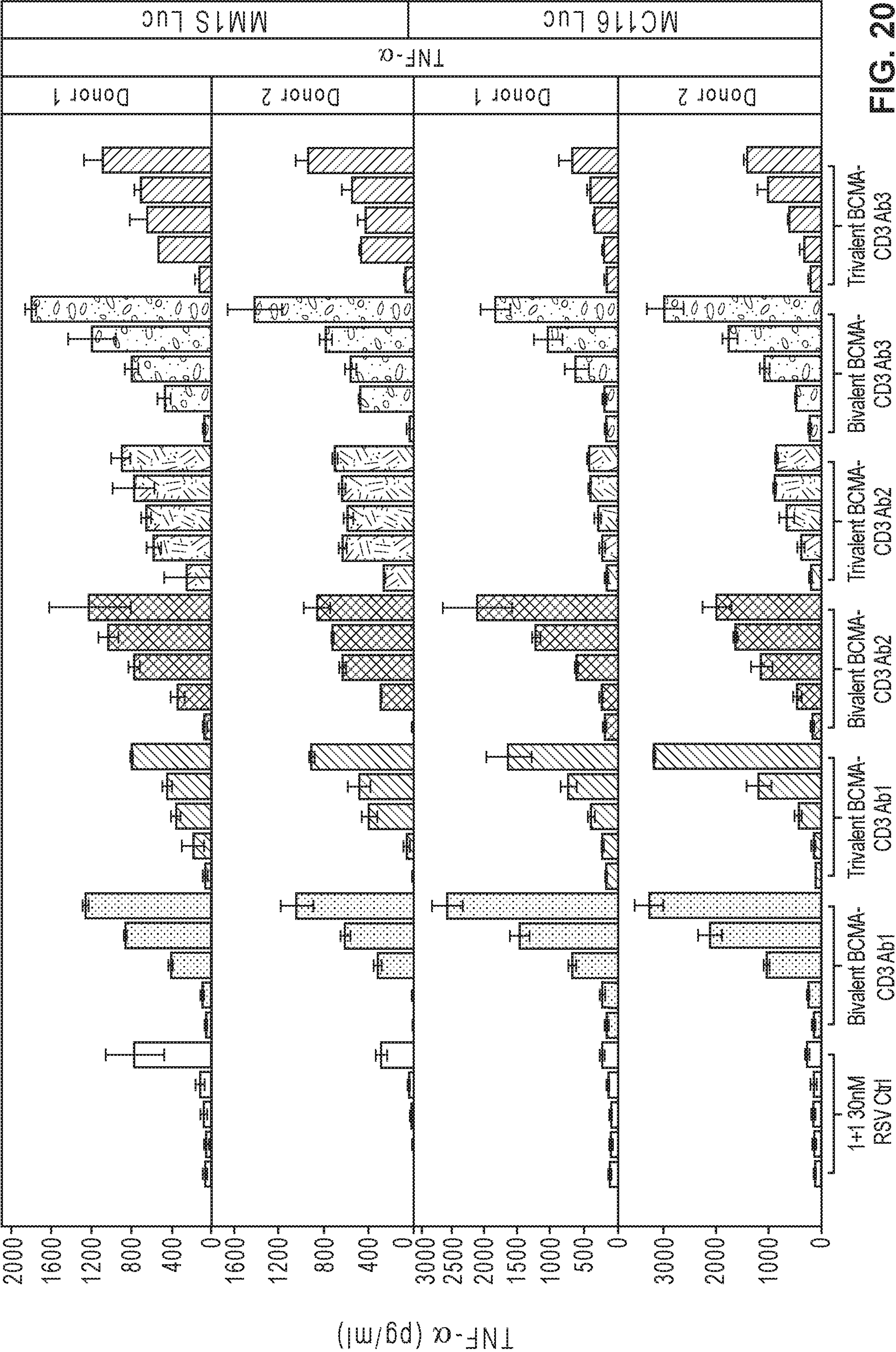


FIG. 20B

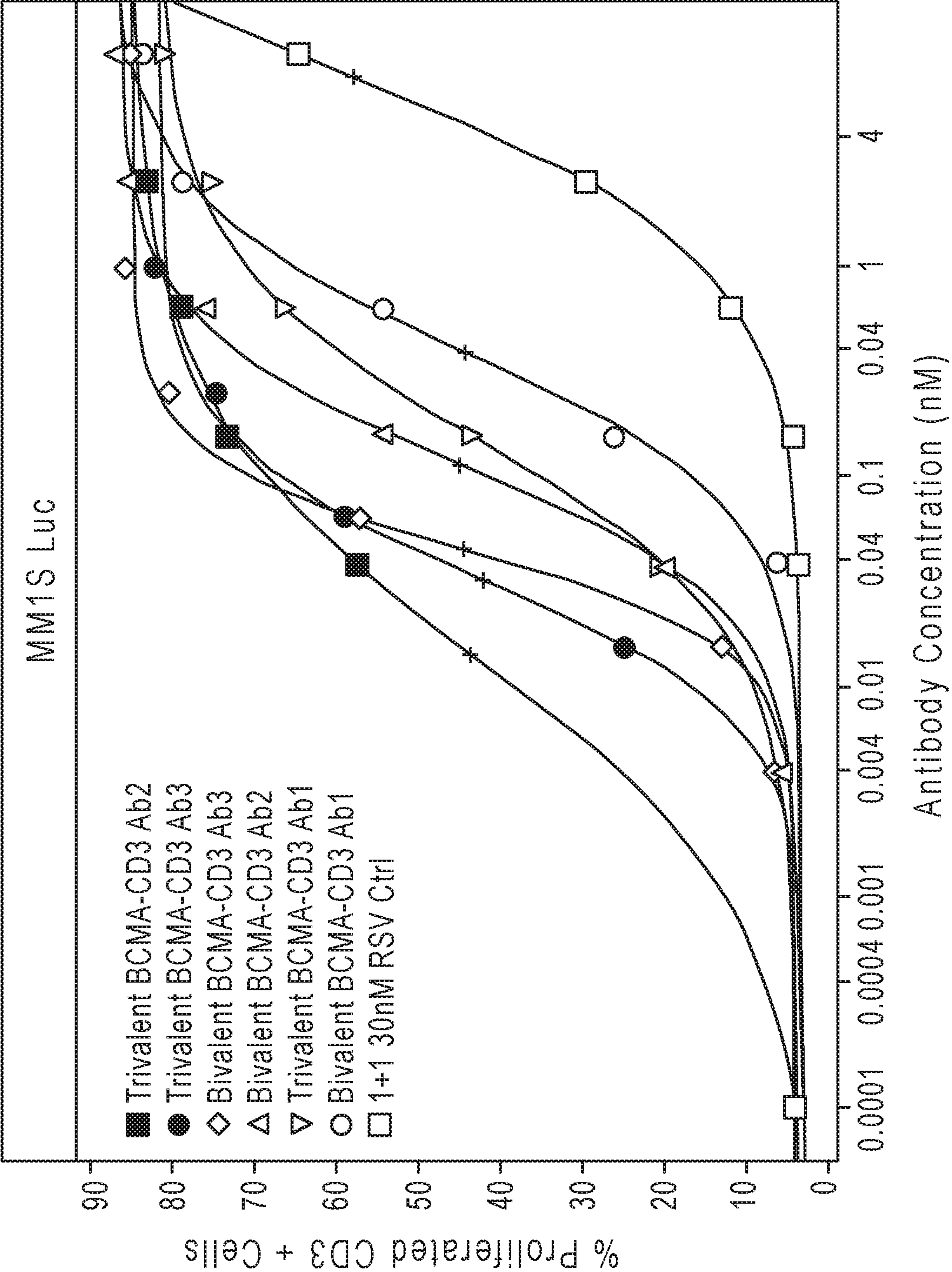


FIG. 21A

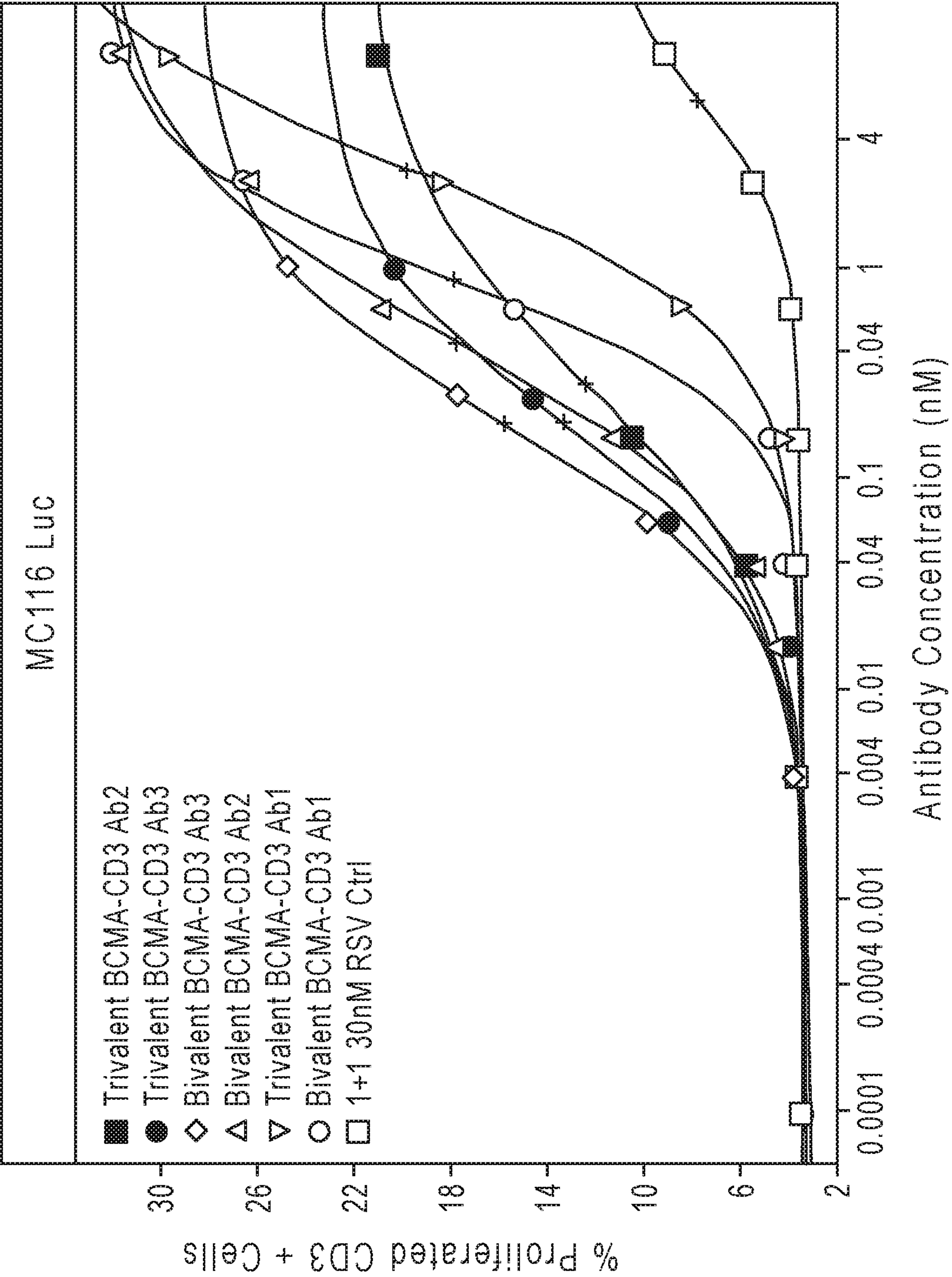


FIG. 21B

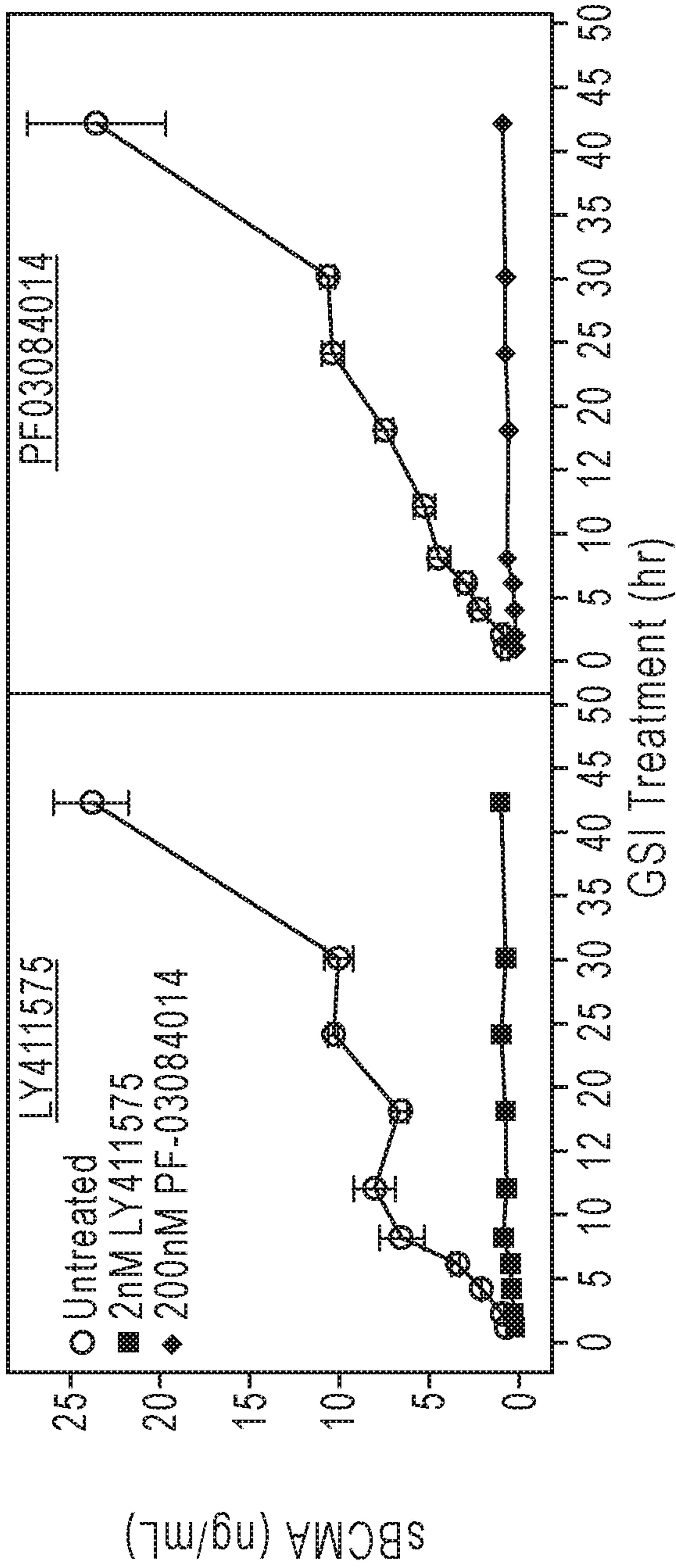


FIG. 22A

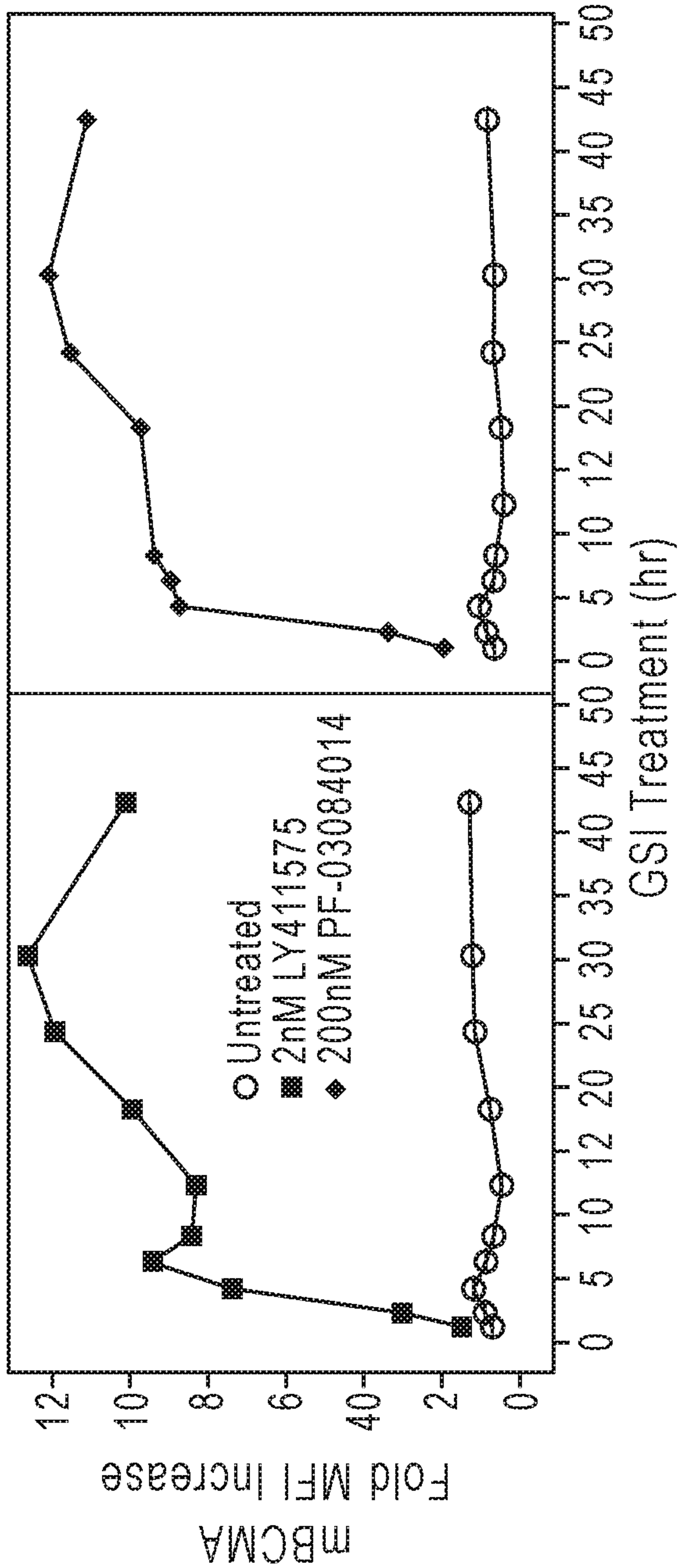


FIG. 22B

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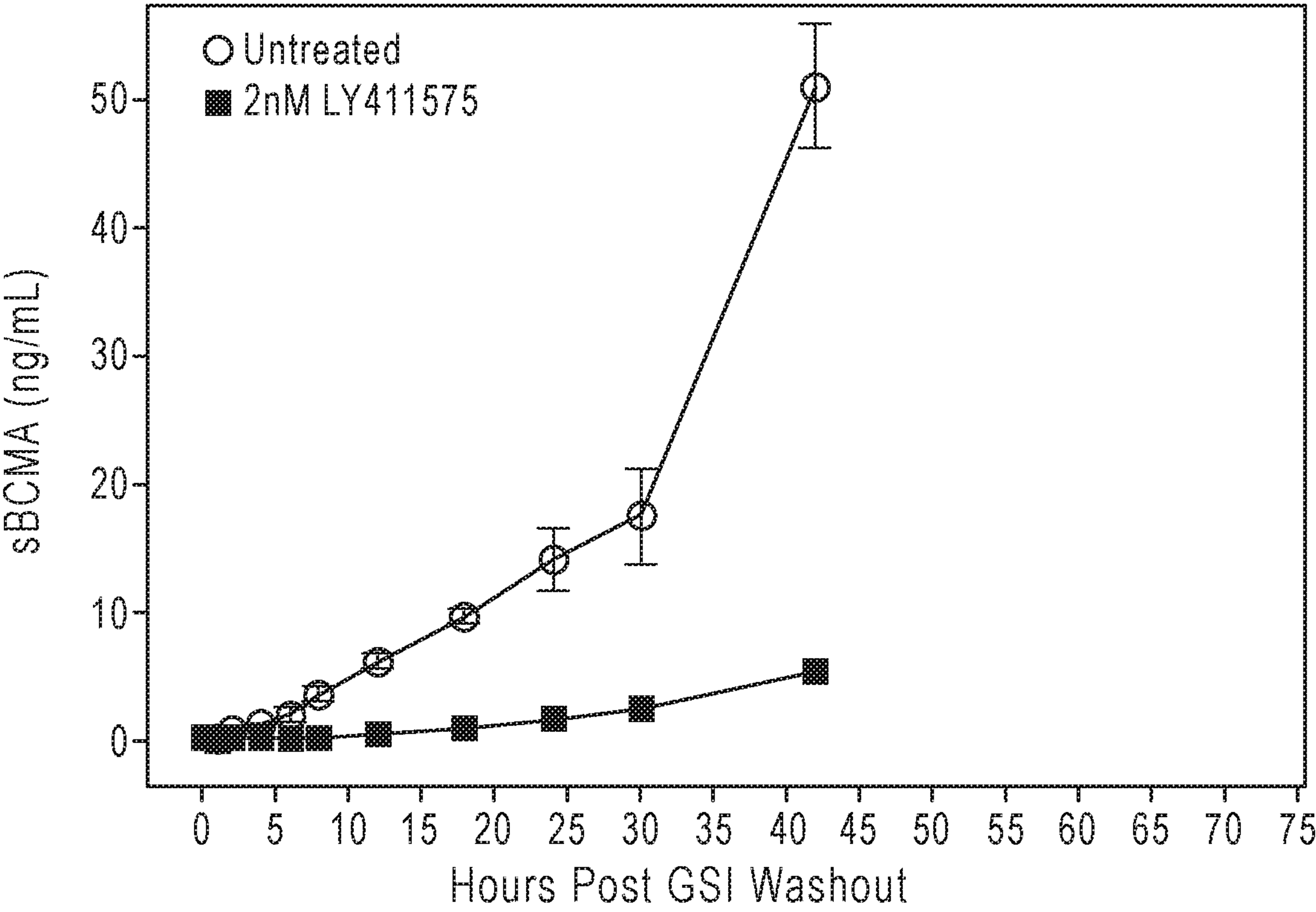


FIG. 23A

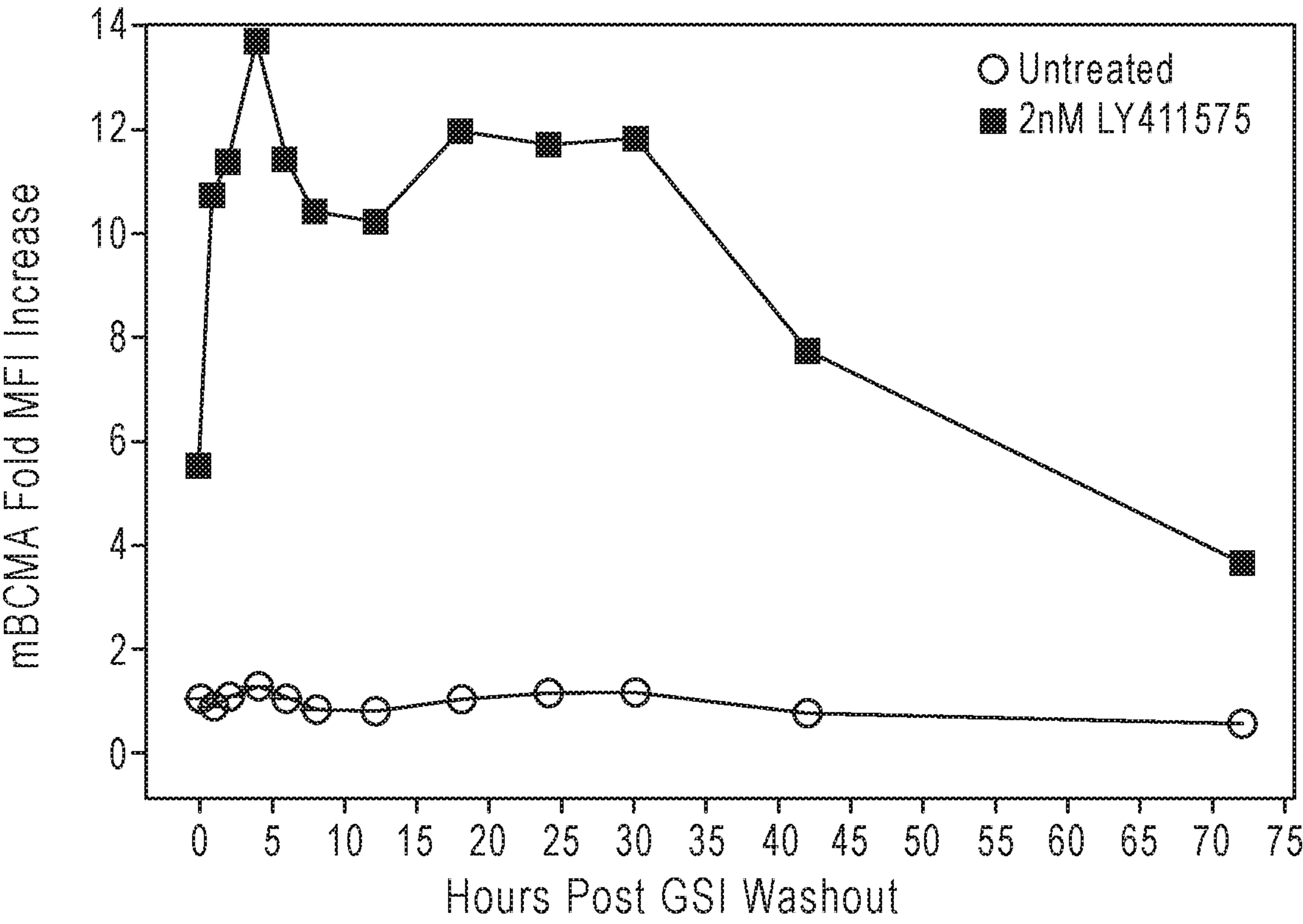


FIG. 23B

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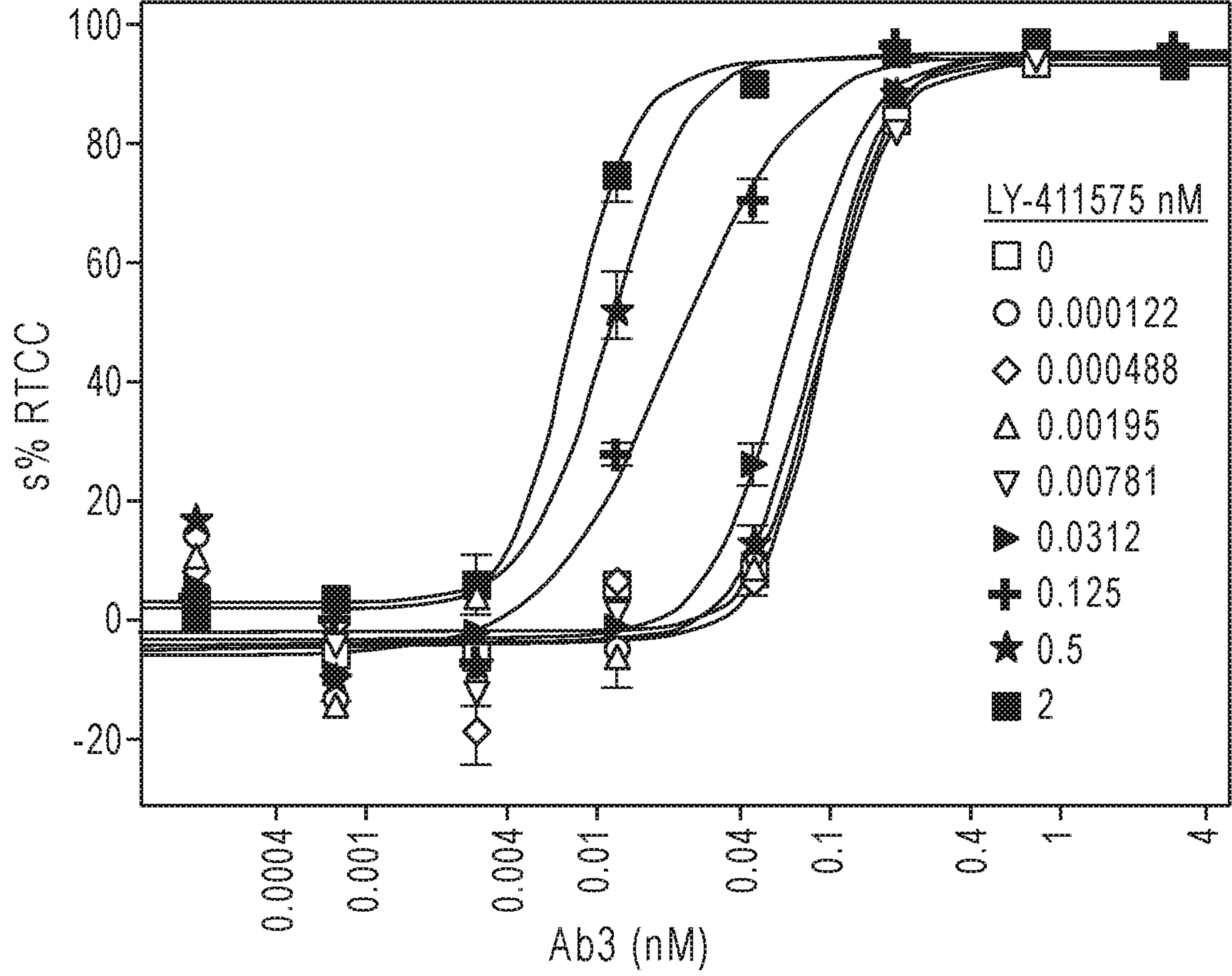


FIG. 24A

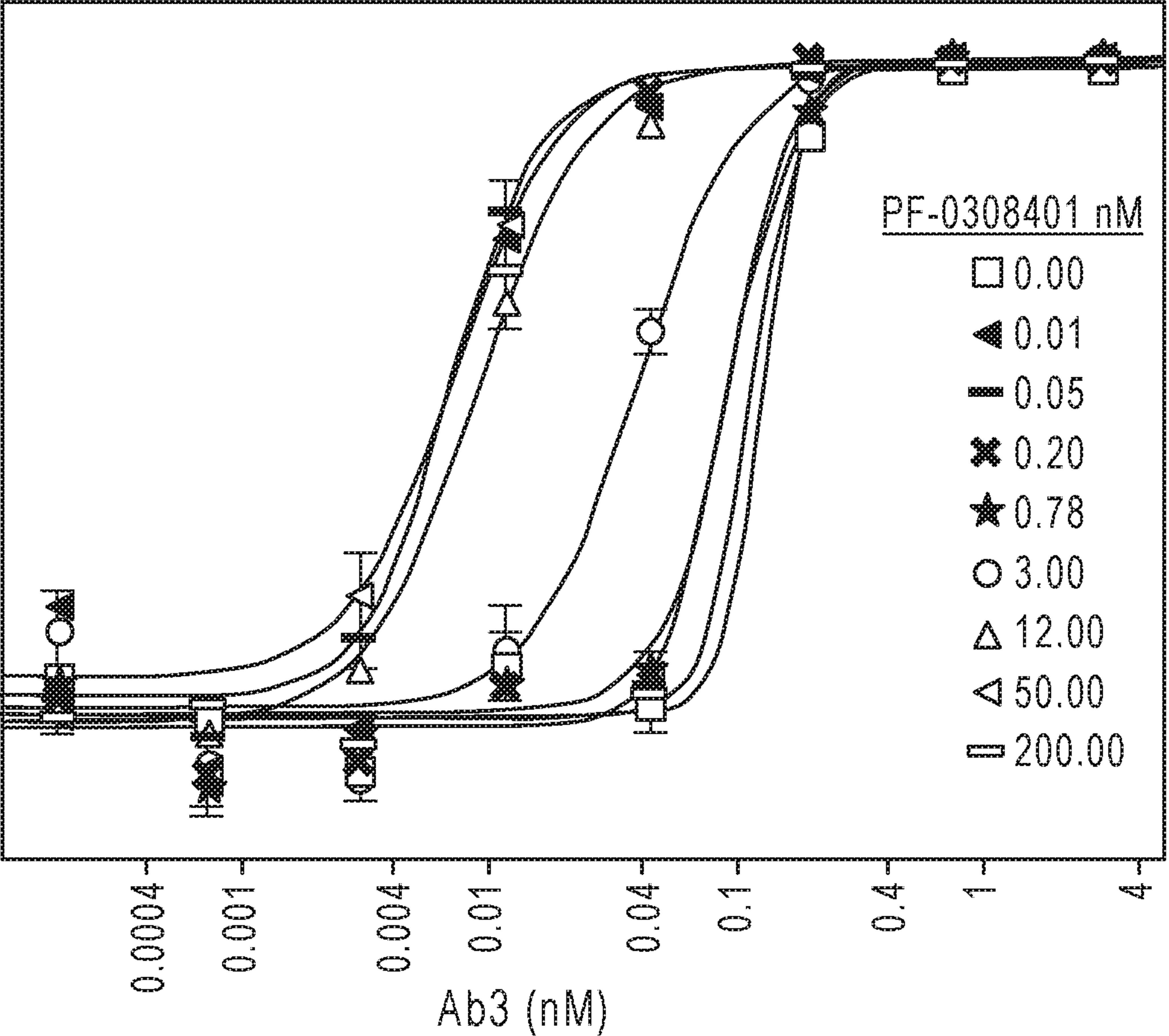


FIG. 24B

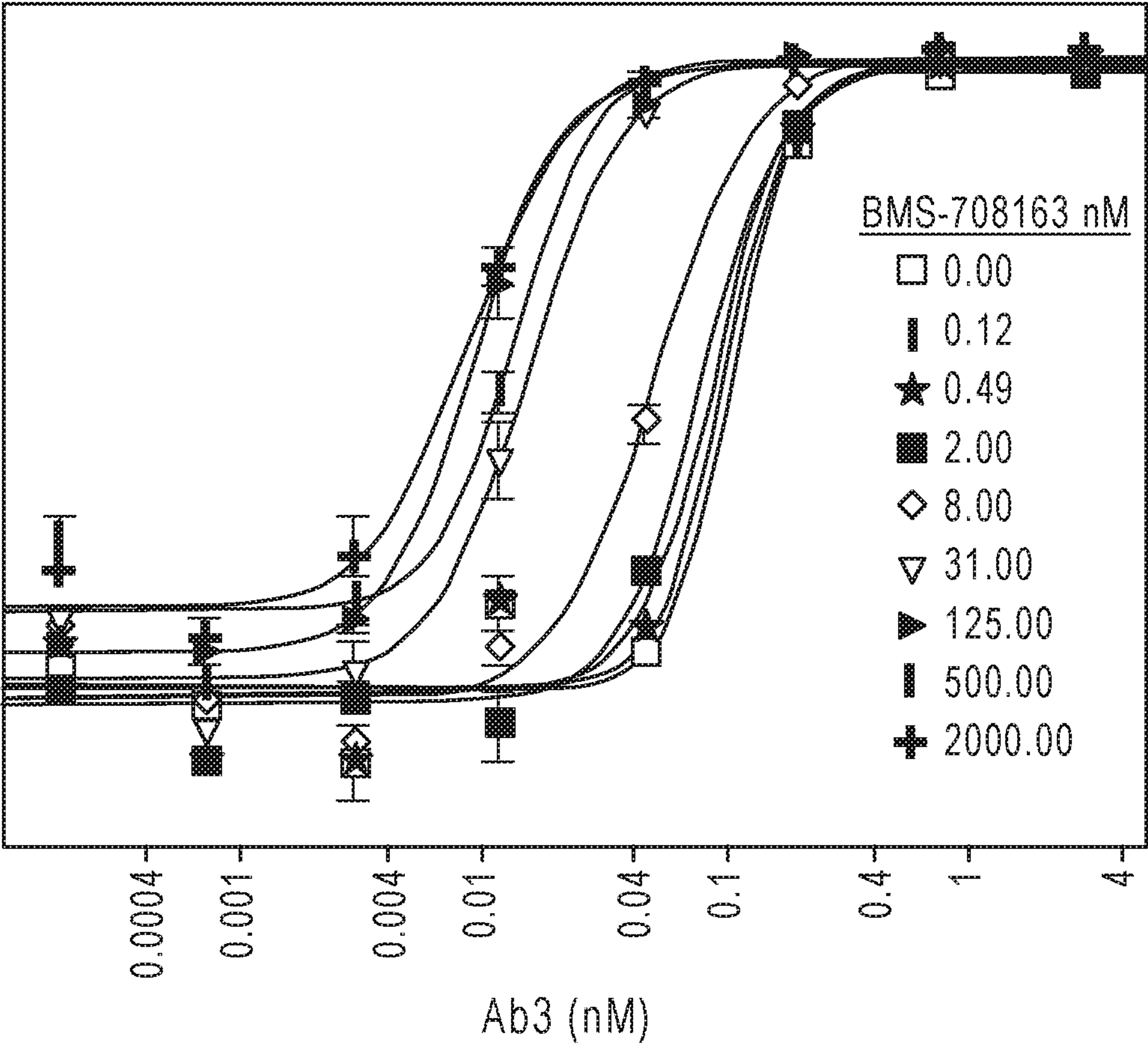


FIG. 24C

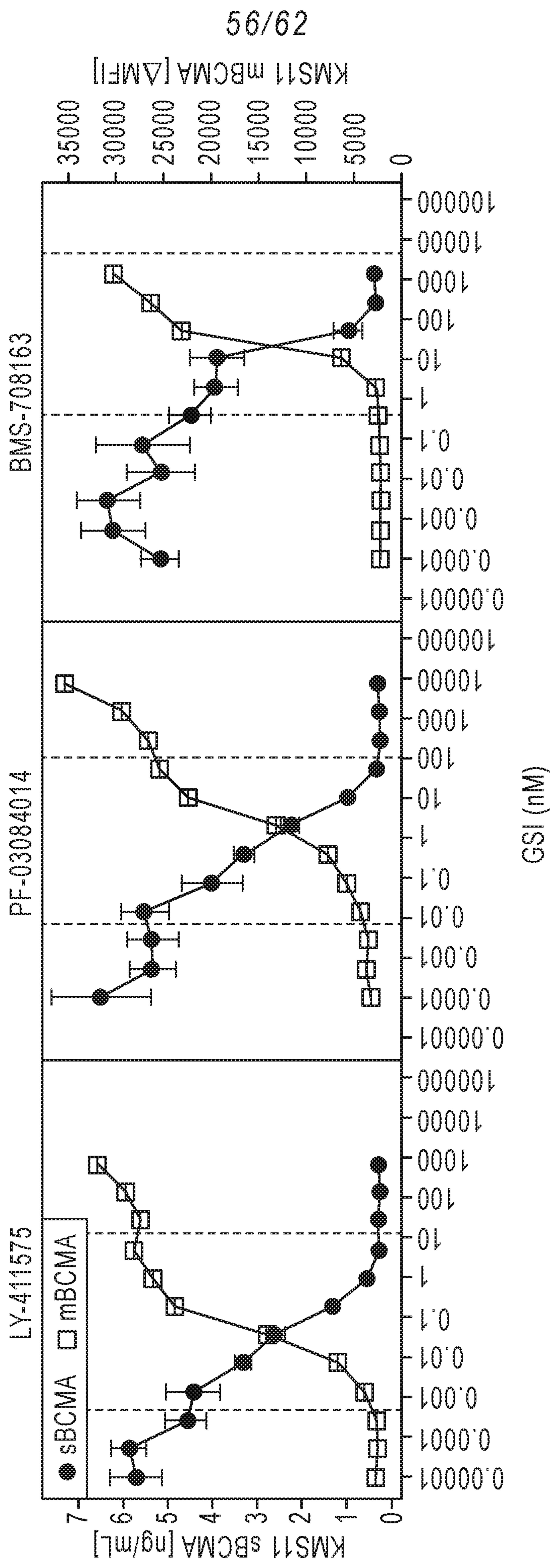


FIG. 25A

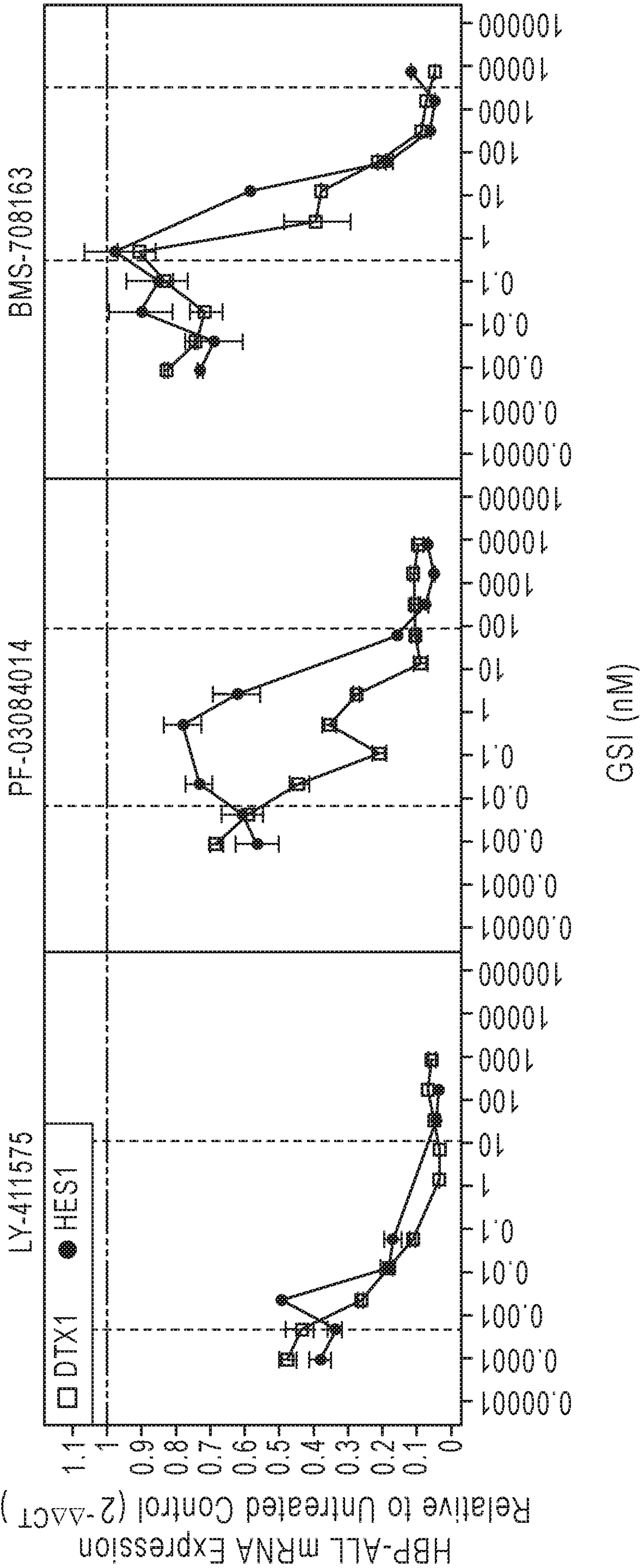


FIG. 25B

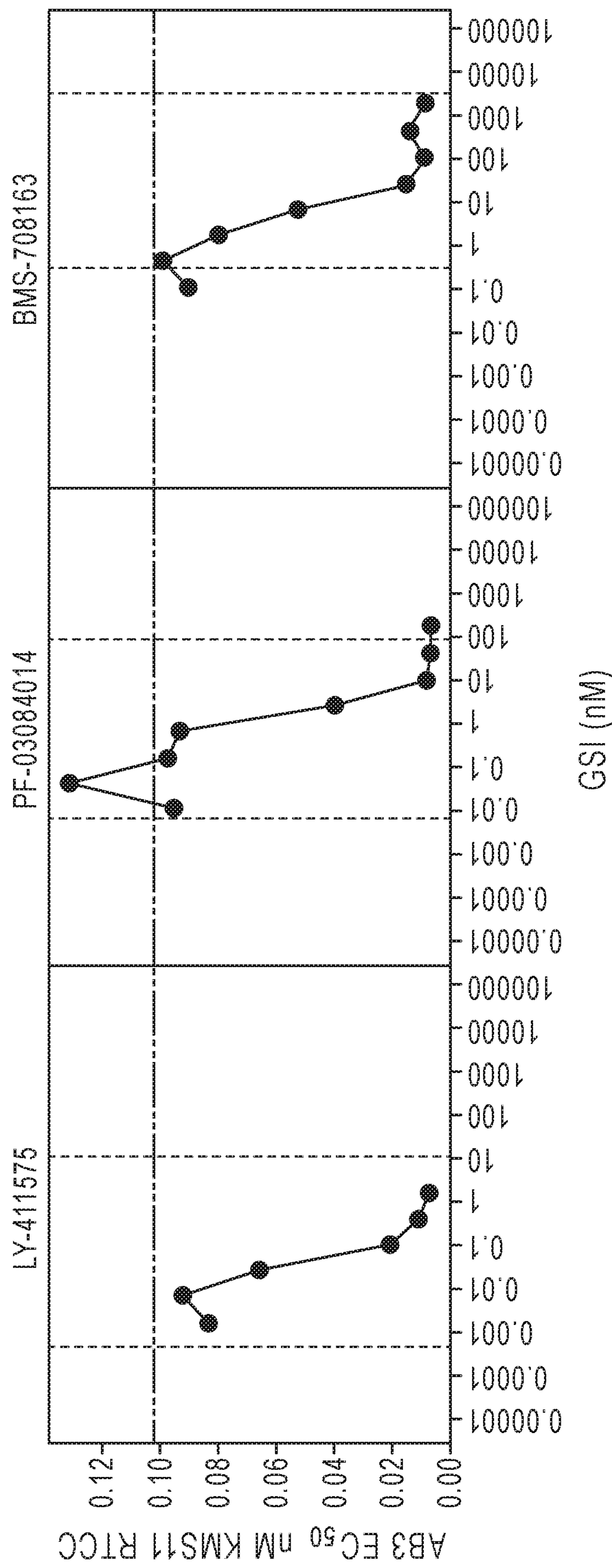


FIG. 25C

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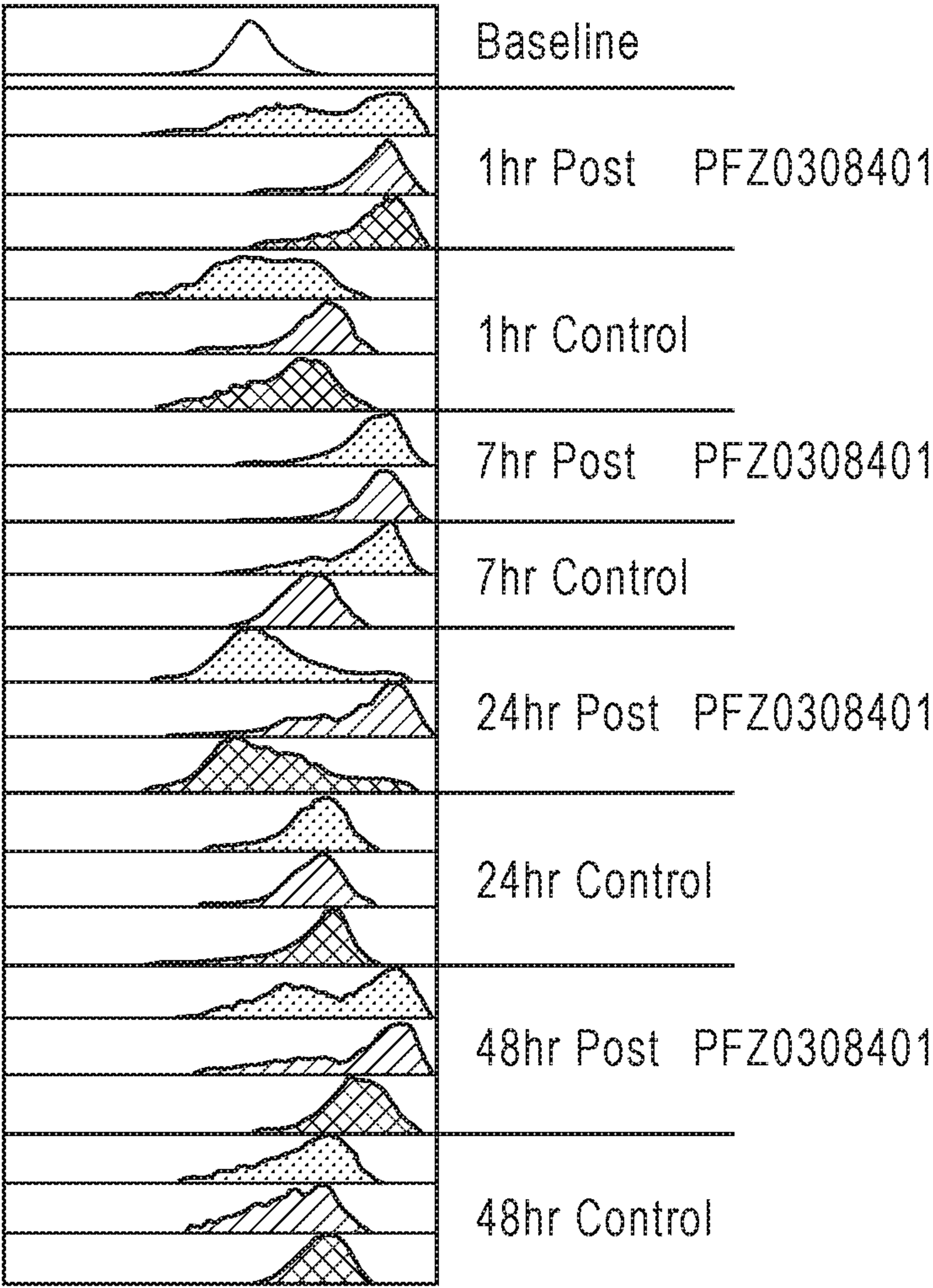


FIG. 26

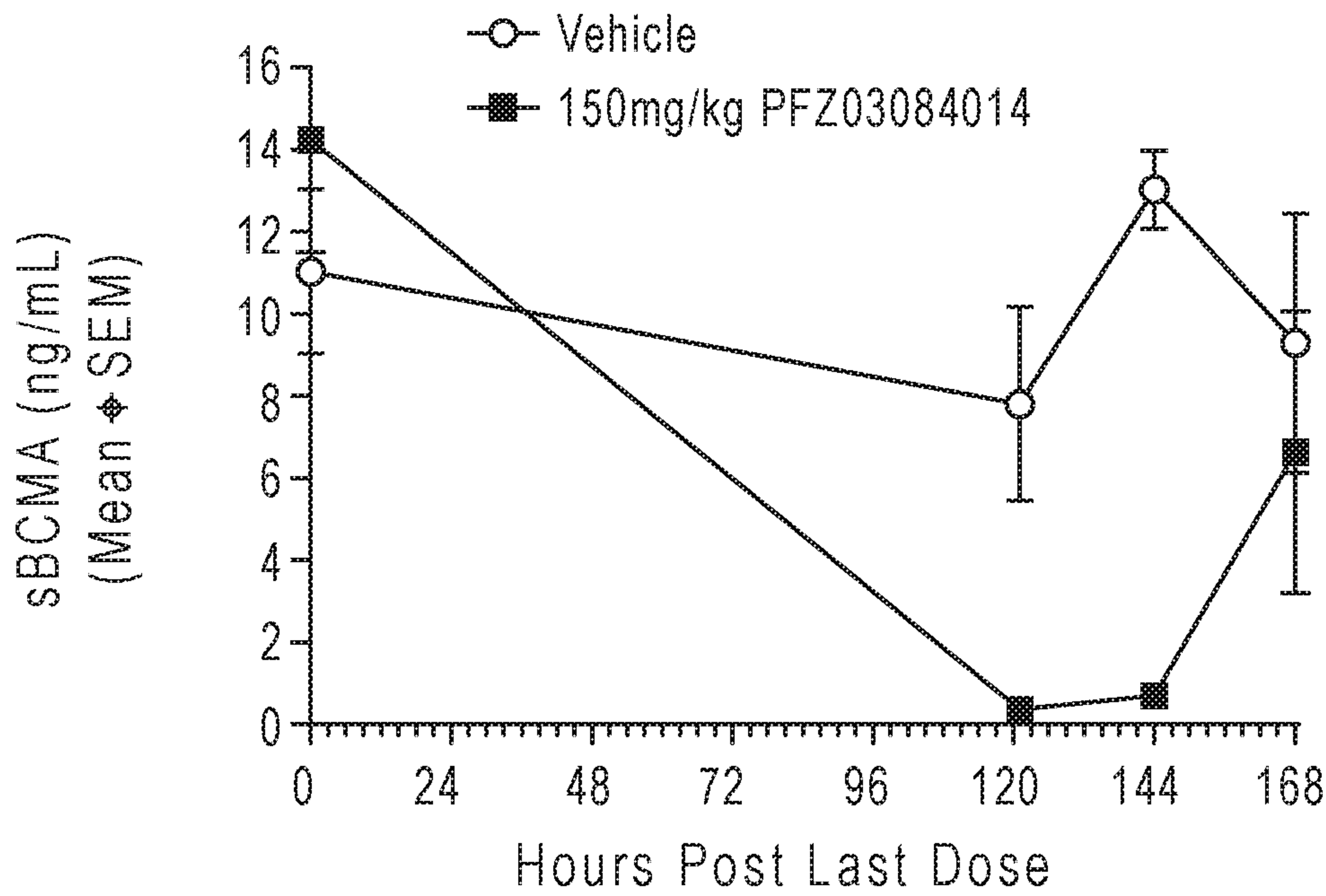


FIG. 27

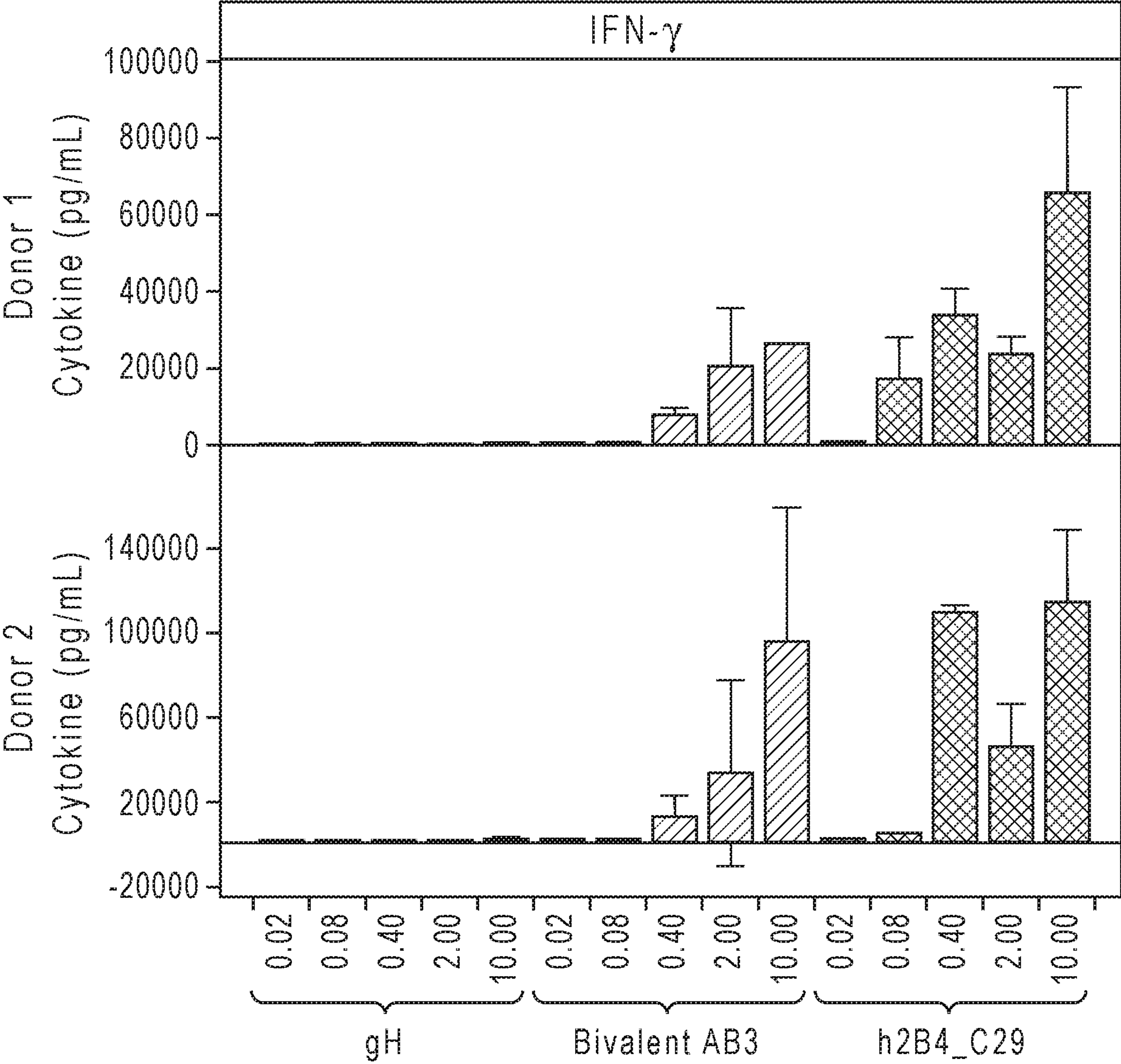


FIG. 28A

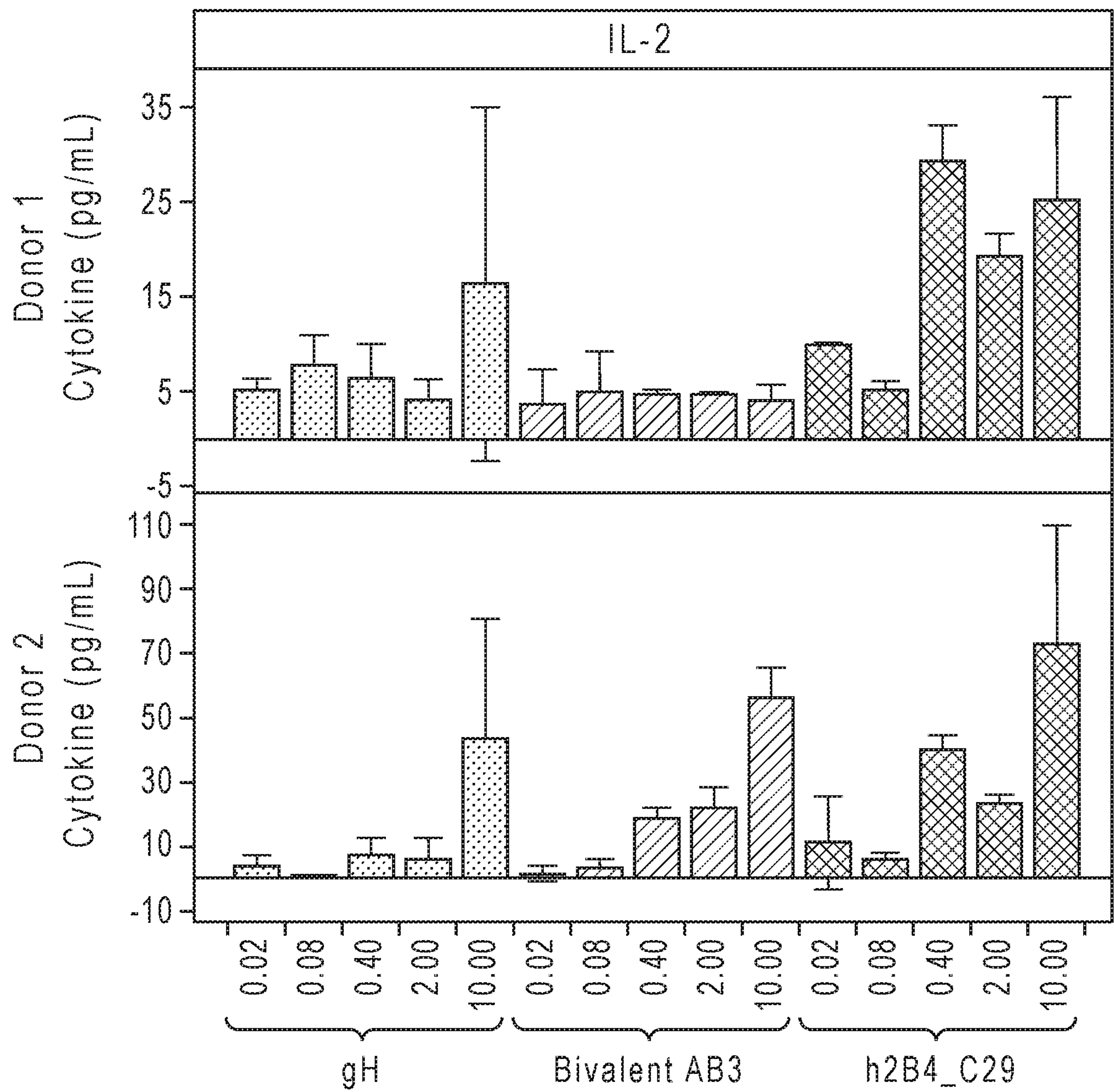


FIG. 28B

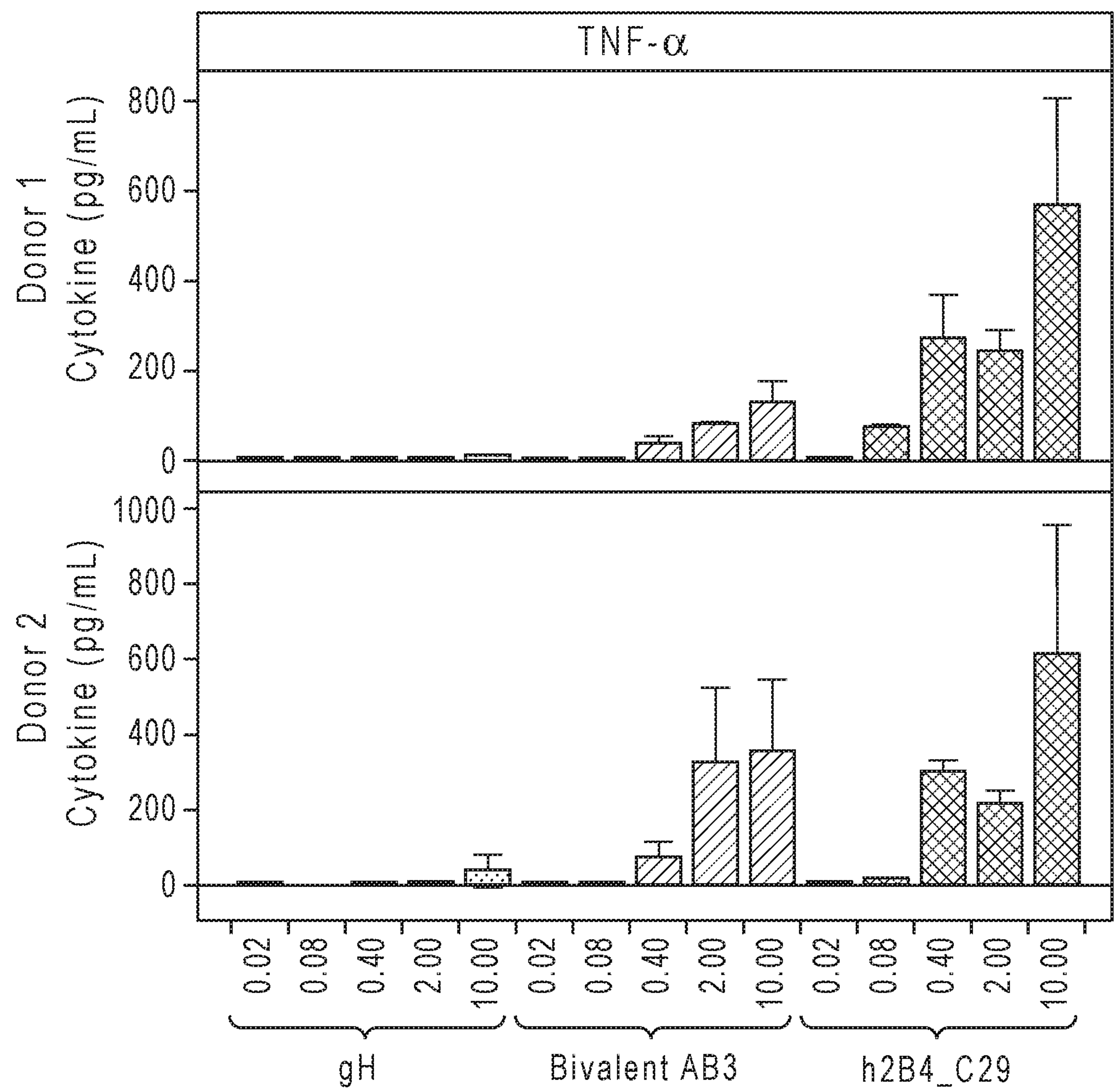


FIG. 28C