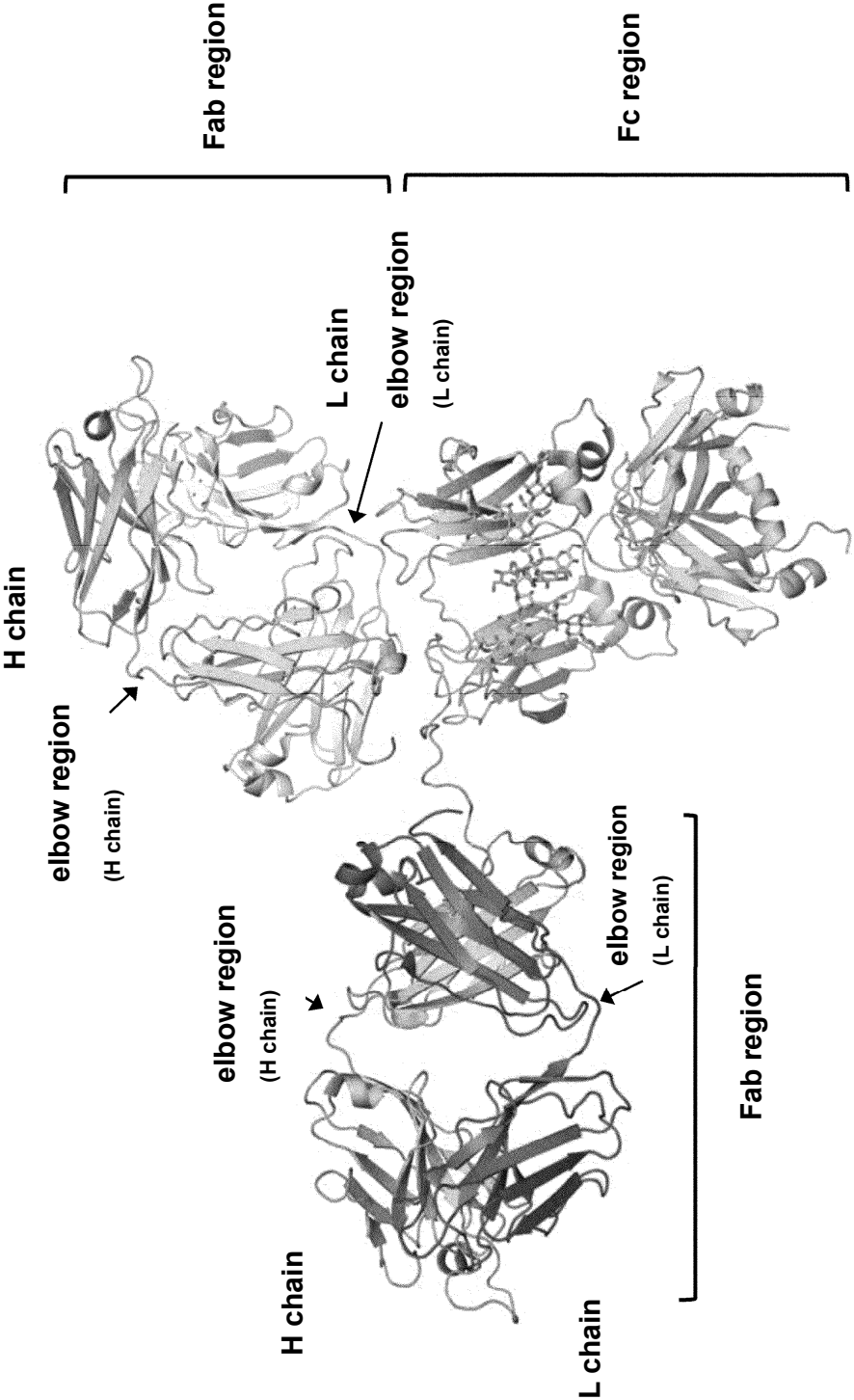
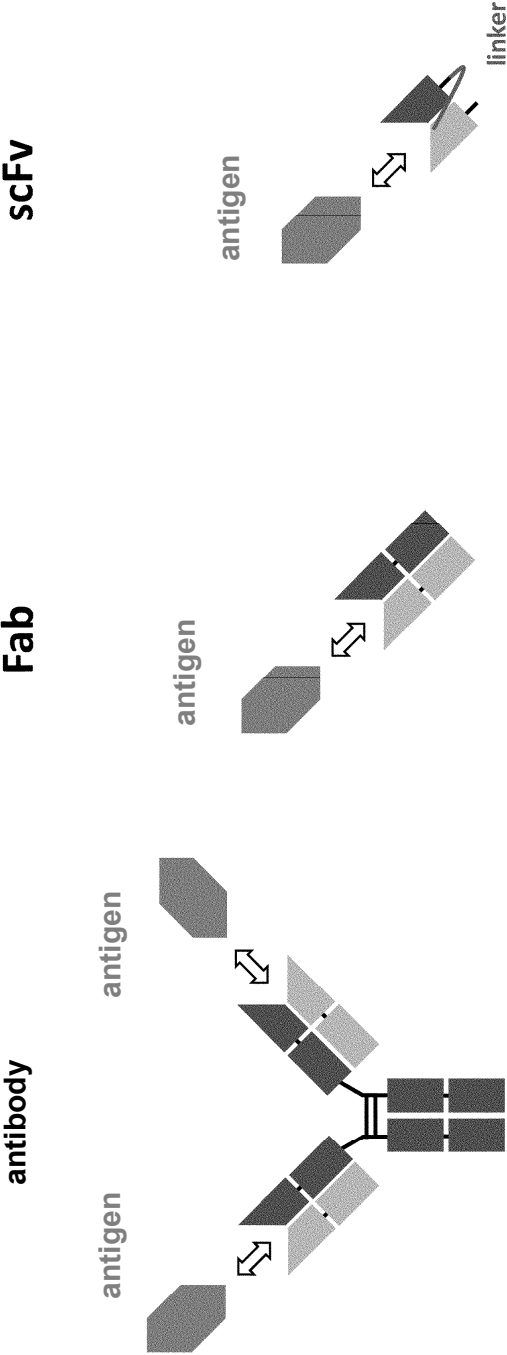


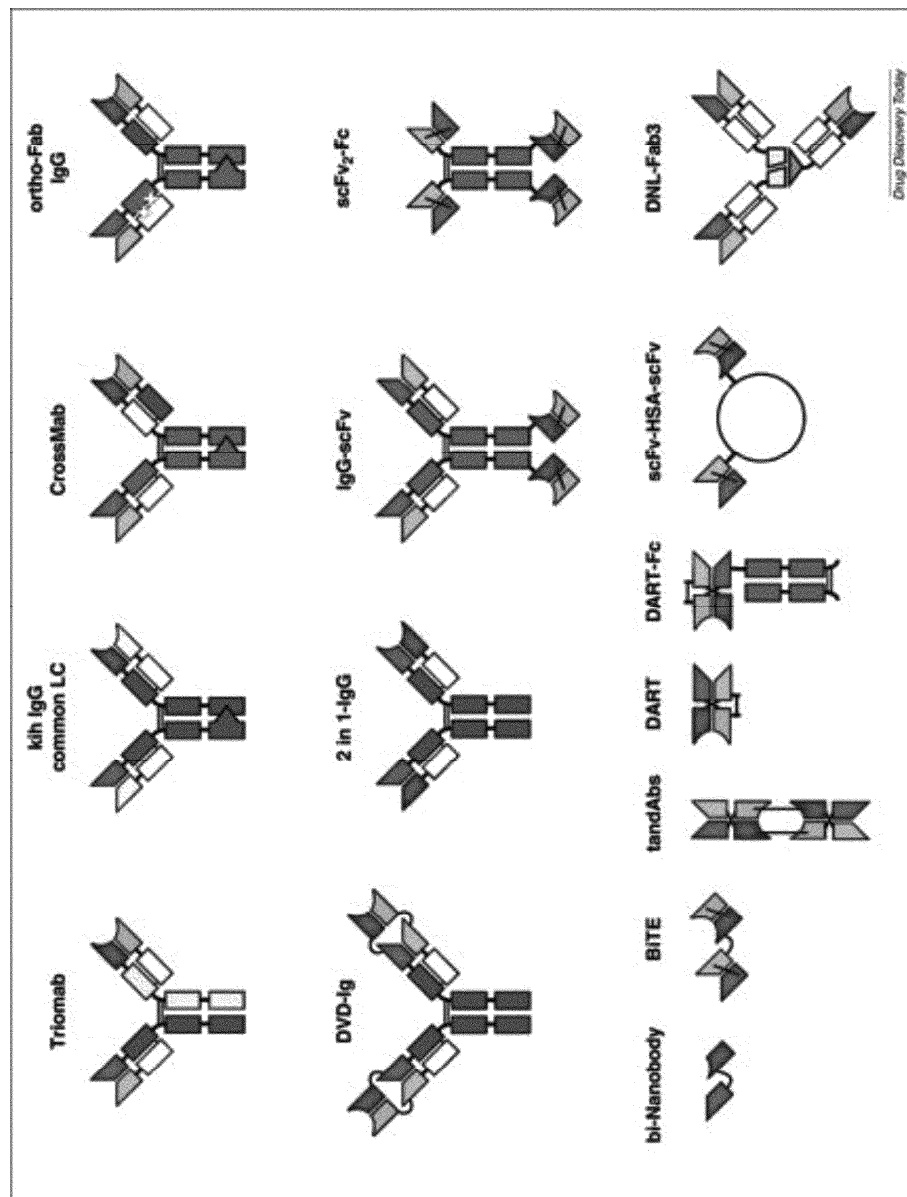
[FIG.1]



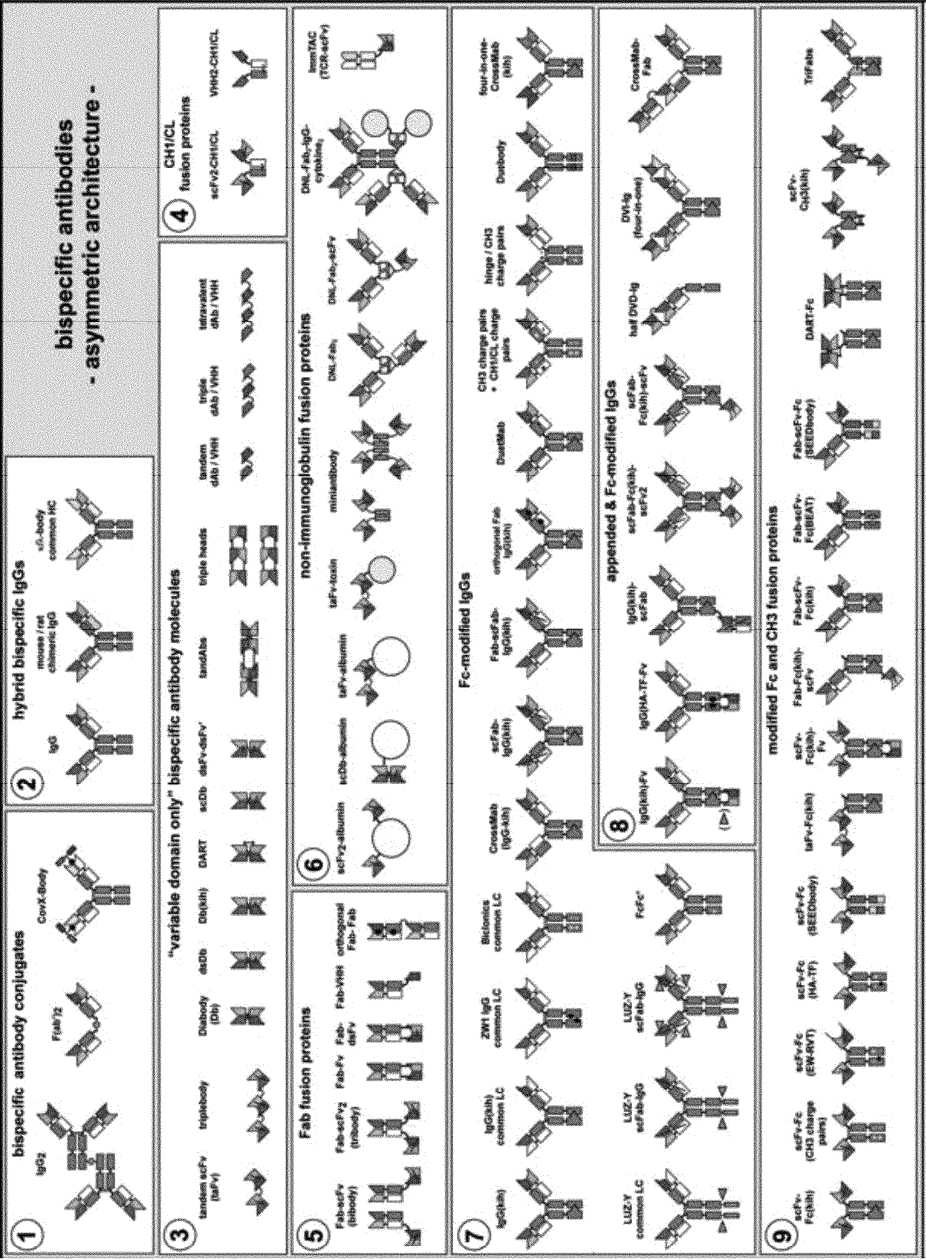
[FIG.2]



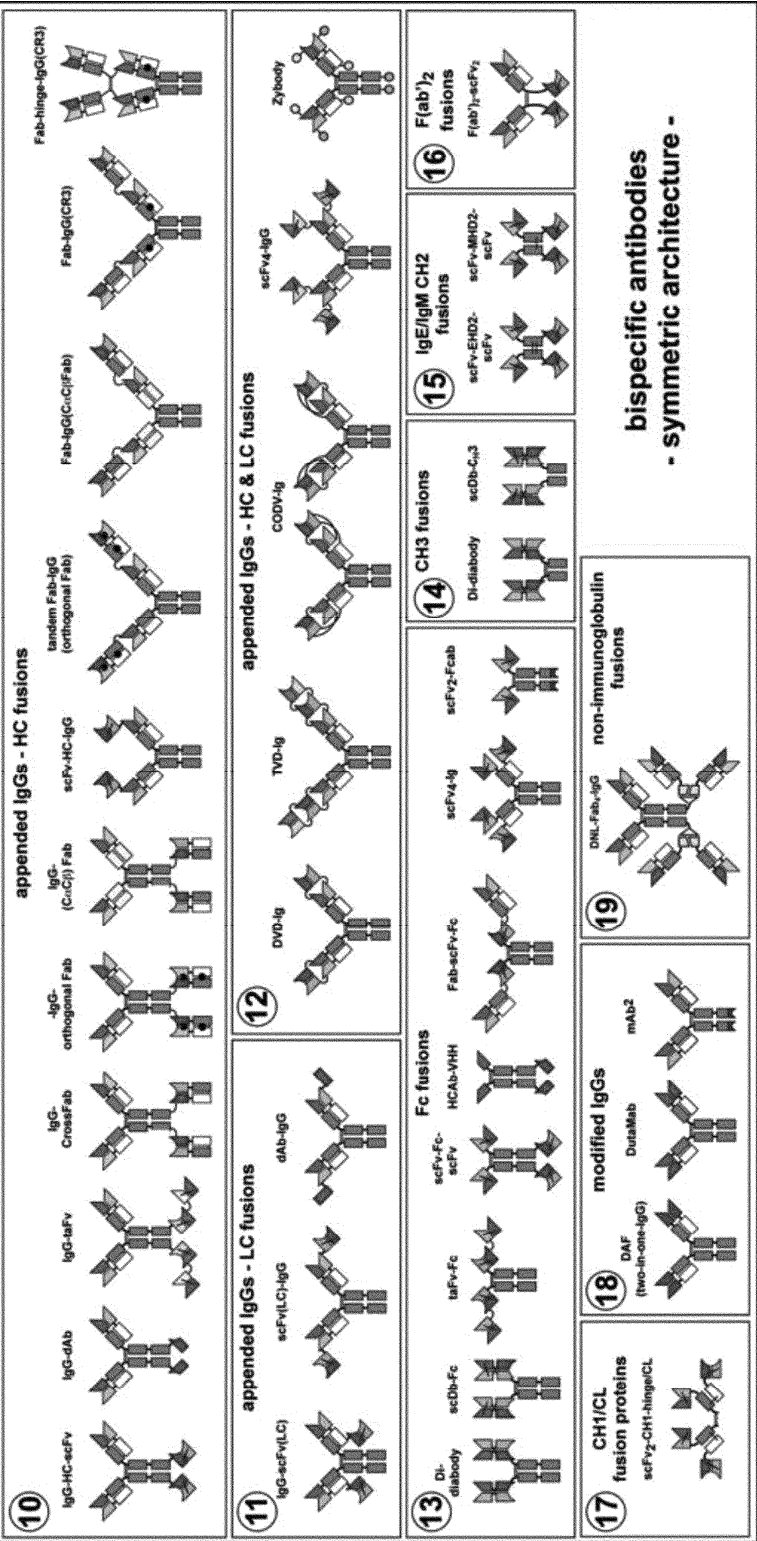
[FIG.3]



[FIG.4]



[FIG.5]

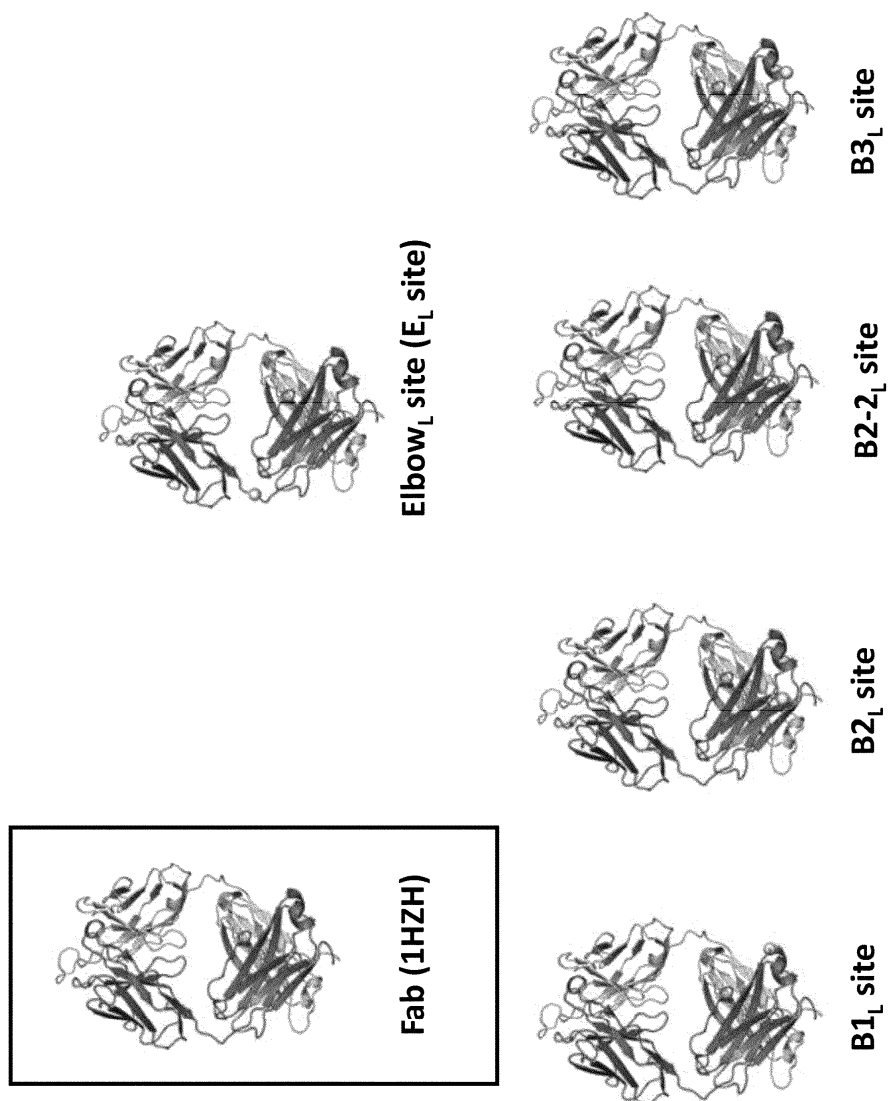


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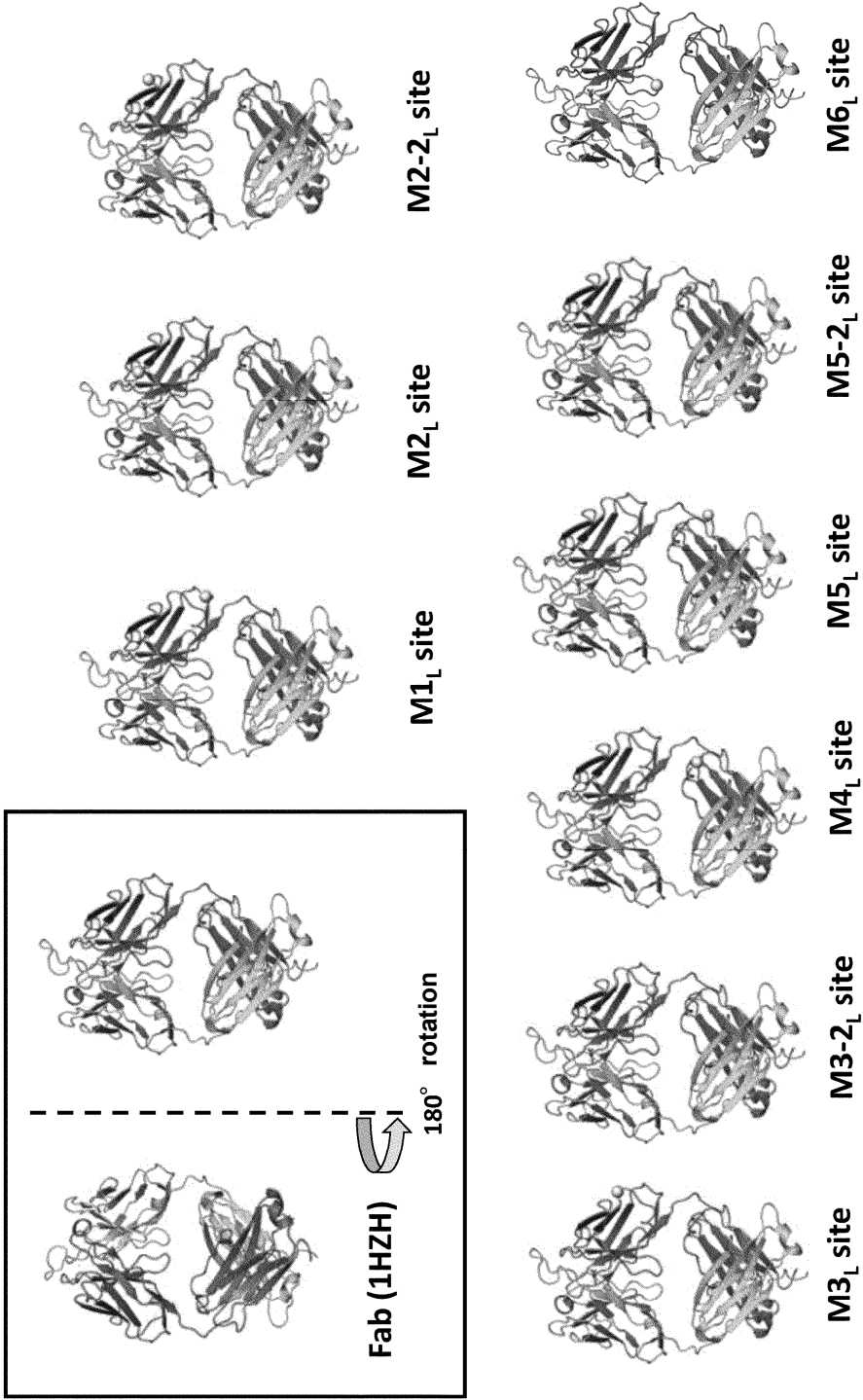
[FIG.6]

insertion site in L chain		Chothia number in amino acid sequence of L chain	
E _L	➡	...VEIKR ¹⁰⁸ -	(GWRPYIERWTGRLIV-G)-T ¹⁰⁹ VAAP...
B1 _L	➡	...EQLKS ¹²⁷ -	(GWRPYIERWTGRLIVGG)-G ¹²⁸ TASV...
B2 _L	➡	...QWKVD ¹⁵¹ -	(GWRPYIERWTGRLIVGG)-N ¹⁵² ALQS...
B2-2 _L	➡	...NALQS ¹⁵⁶ -	(GWRPYIERWTGRLIVGG)-G ¹⁵⁷ NSQE...
B3 _L	➡	...ADYEK ¹⁸⁸ -	(GWRPYIERWTGRLIVGG)-H ¹⁸⁹ KVYA...
M1 _L	➡	...LSASV ¹⁵ -	(GWRPYIERWTGRLIVGG)-G ¹⁶ DRVT...
M2 _L	➡	...SSRAS ⁵⁶ -	(GWRPYIERWTGRLIVGG)-G ⁵⁷ VPSR...
M2-2 _L	➡	...SGVPS ⁶⁰ -	(GWRPYIERWTGRLIVGG)-R ⁶¹ FSGS...
M3 _L	➡	...TLTIS ⁷⁶ -	(GWRPYIERWTGRLIVGG)-S ⁷⁷ LQPE...
M3-2 _L	➡	...SSLQP ⁸⁰ -	(GWRPYIERWTGRLIVGG)-E ⁸¹ DFAT...
M4 _L	➡	...EQDSK ¹⁶⁹ -	(GWRPYIERWTGRLIVGG)-D ¹⁷⁰ STYS...
M5 _L	➡	...HQGLS ²⁰² -	(GWRPYIERWTGRLIVGG)-S ²⁰³ PVTK...
M5-2 _L	➡	...EVTHQ ¹⁹⁹ -	(GWRPYIERWTGRLIVGG)-G ²⁰⁰ LSSP...
M6 _L	➡	...YQQKP ⁴⁰ -	(GWRPYIERWTGRLIVGG)-G ⁴¹ KAPK...

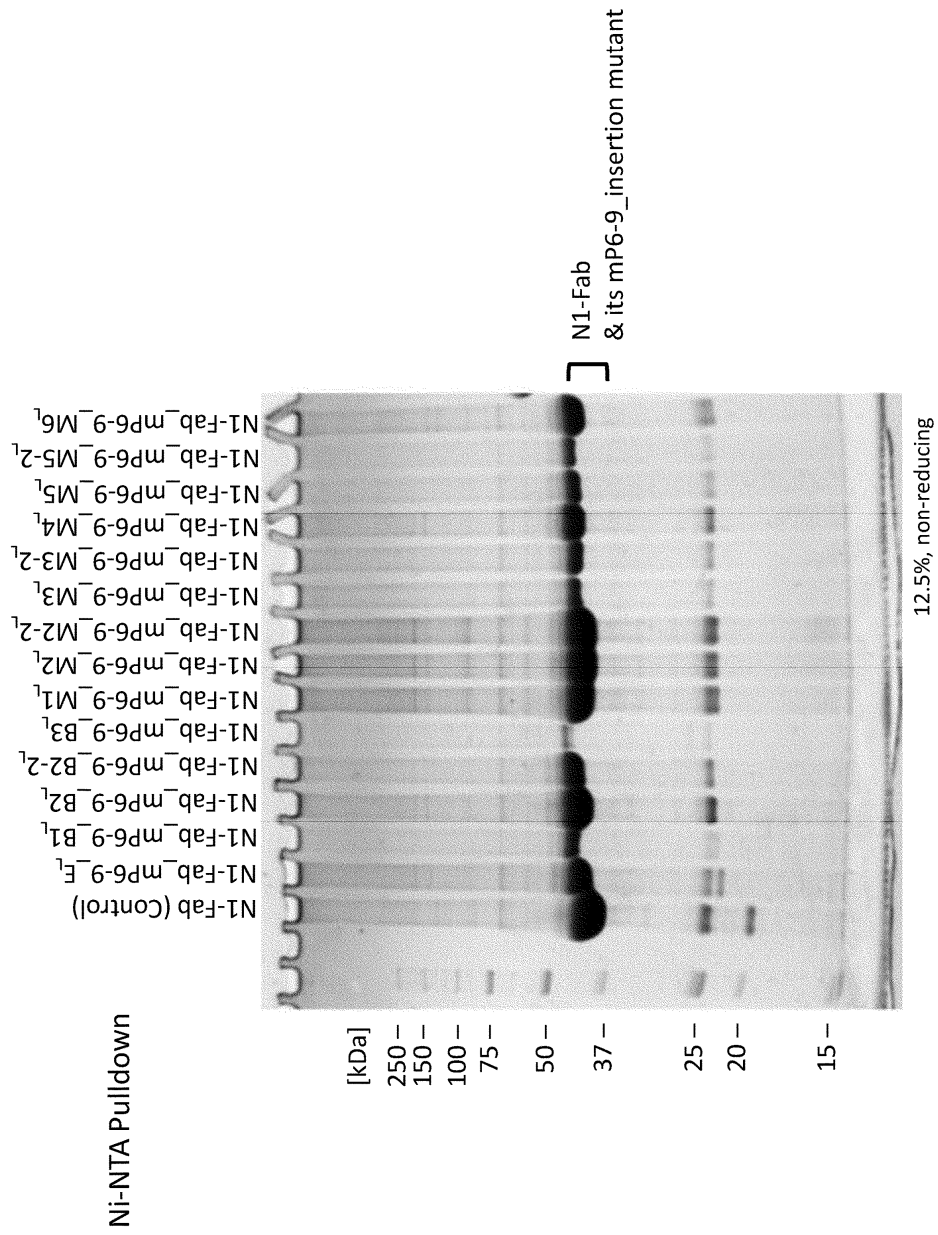
[FIG.7]



[FIG.8]

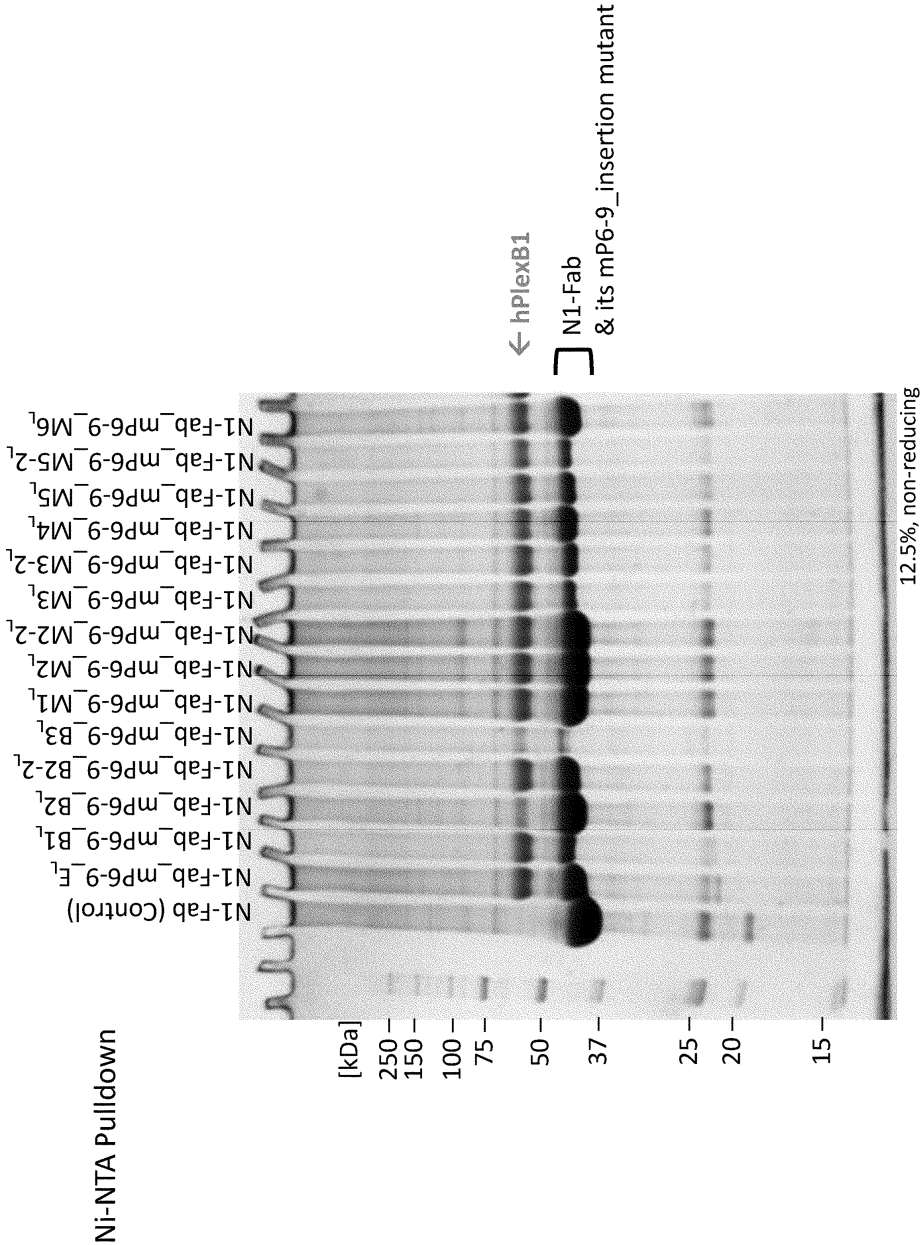


N1-Fab (mP6-9 insertion) Expression check



[FIG.9]

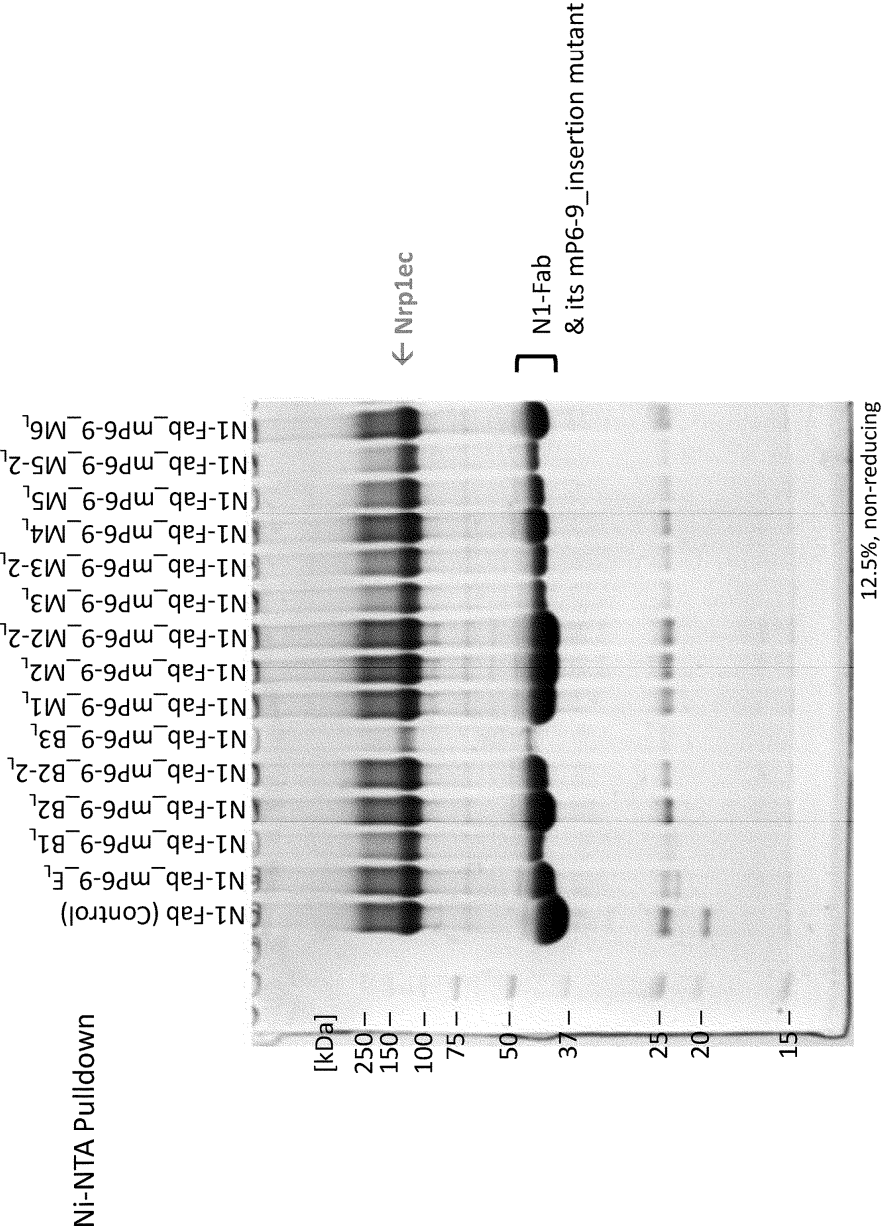
N1-Fab (mP6-9 insertion) hPlexB1 binding check



[FIG.10]

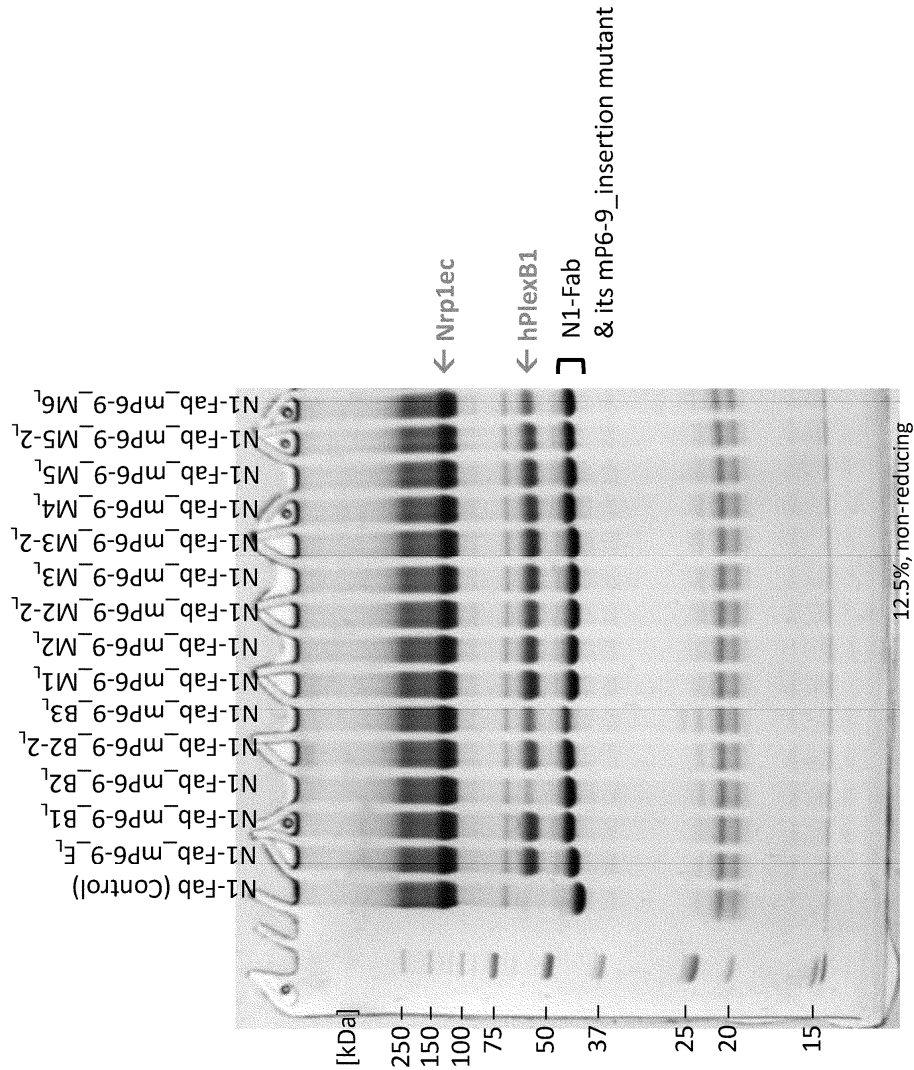
N1-Fab (mP6-9 insertion) Nrp1ec binding check

[FIG.11]



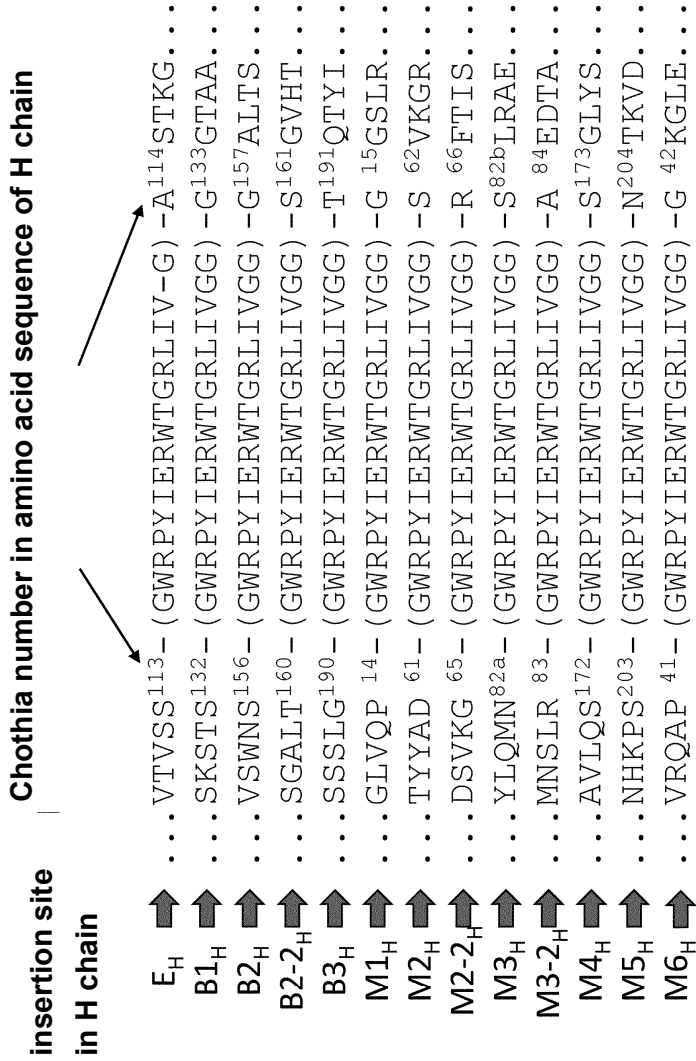
N1-Fab (mP6-9 insertion) Nrp1ec, hPlexB1 binding check

Anti-FLAG tag Pulldown

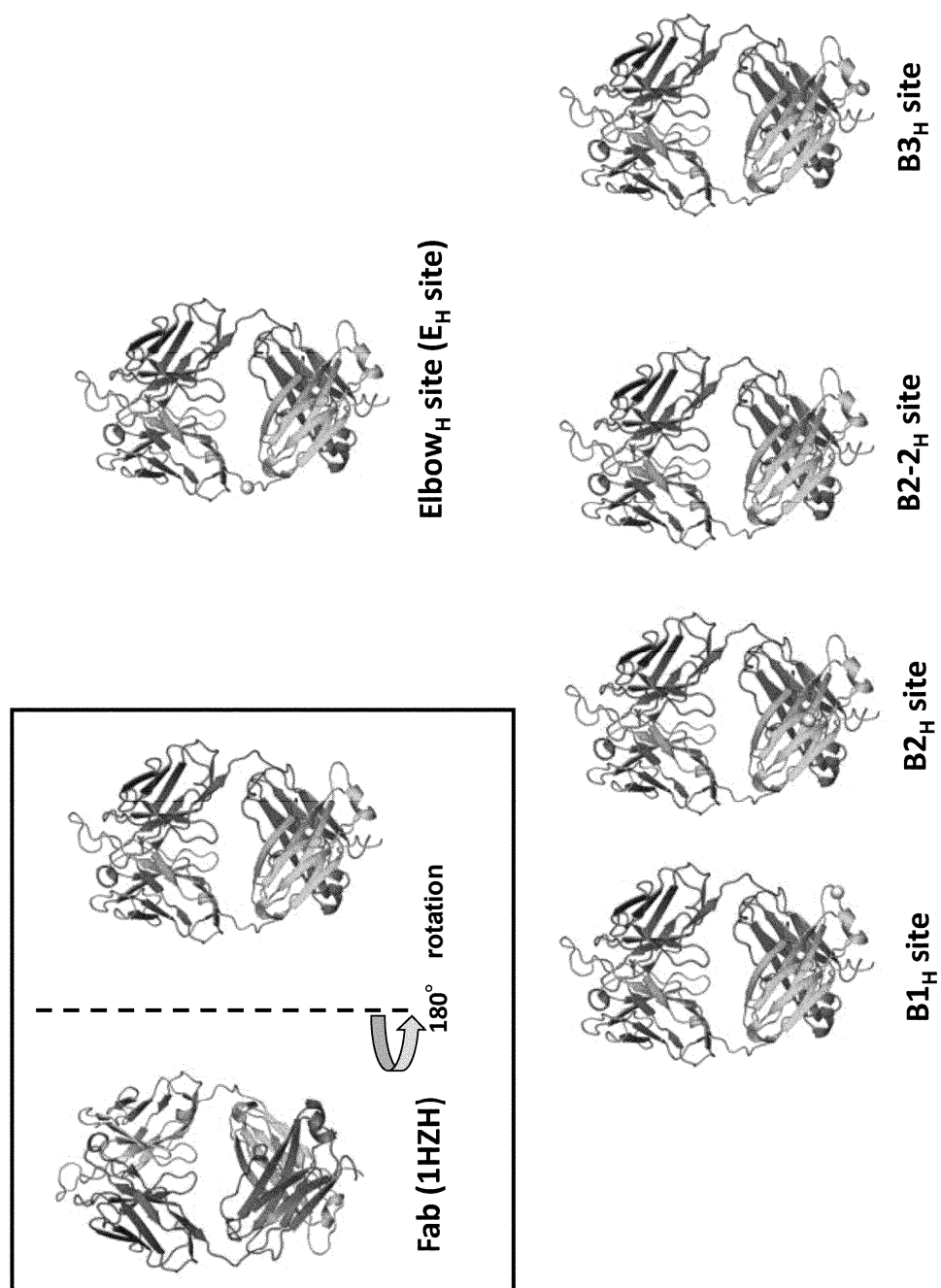


[FIG.12]

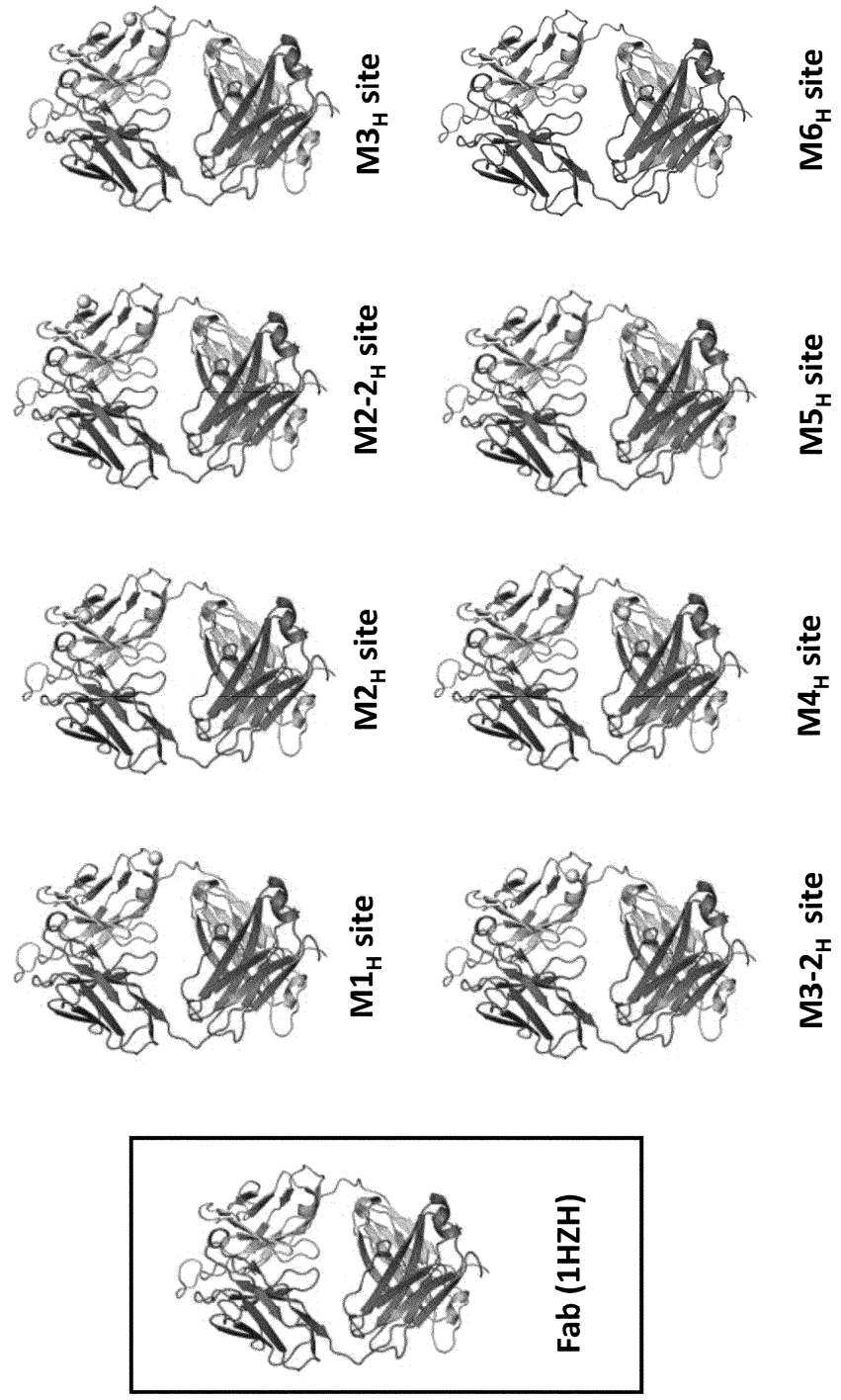
[FIG.13]



[FIG.14]

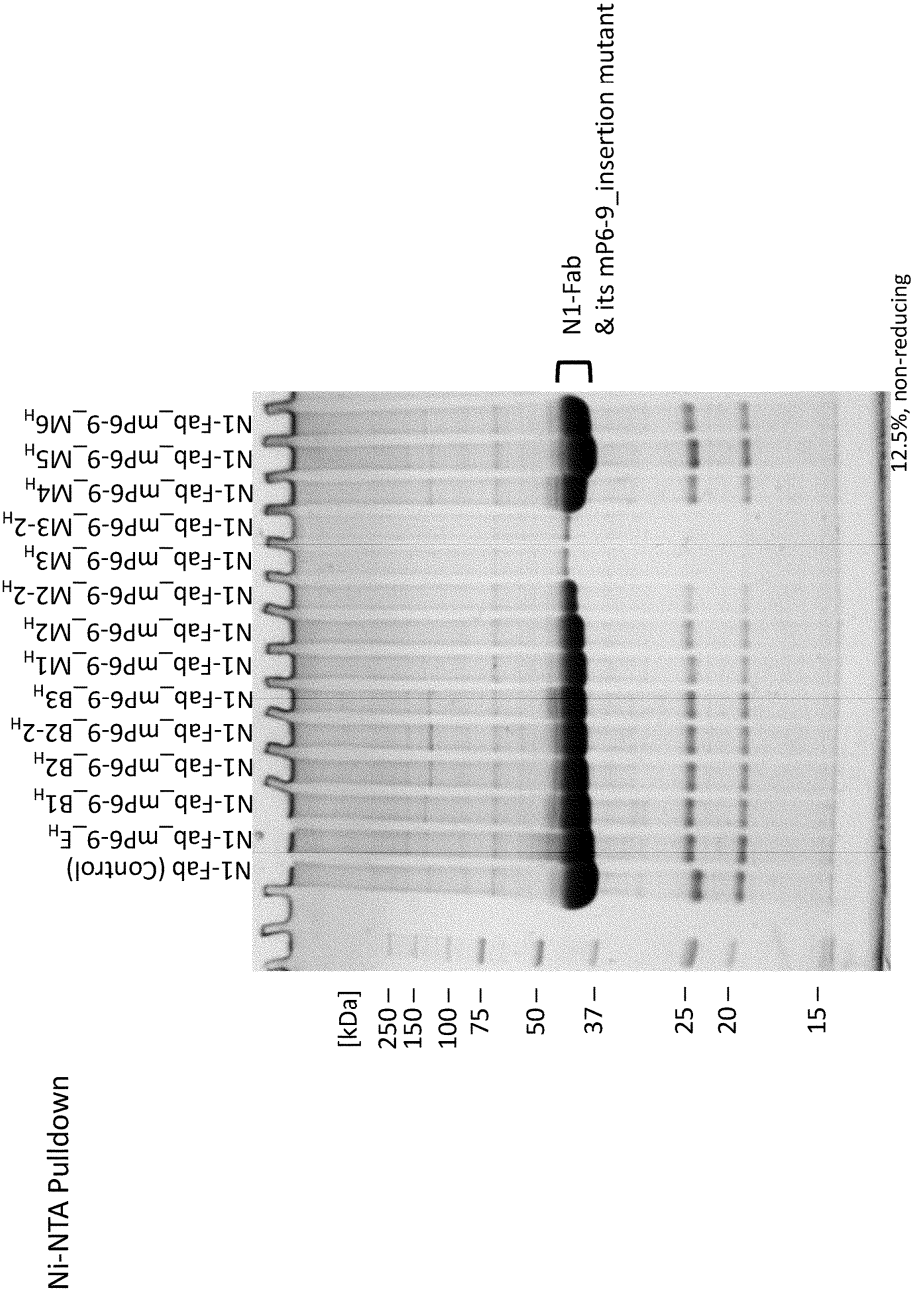


[FIG.15]



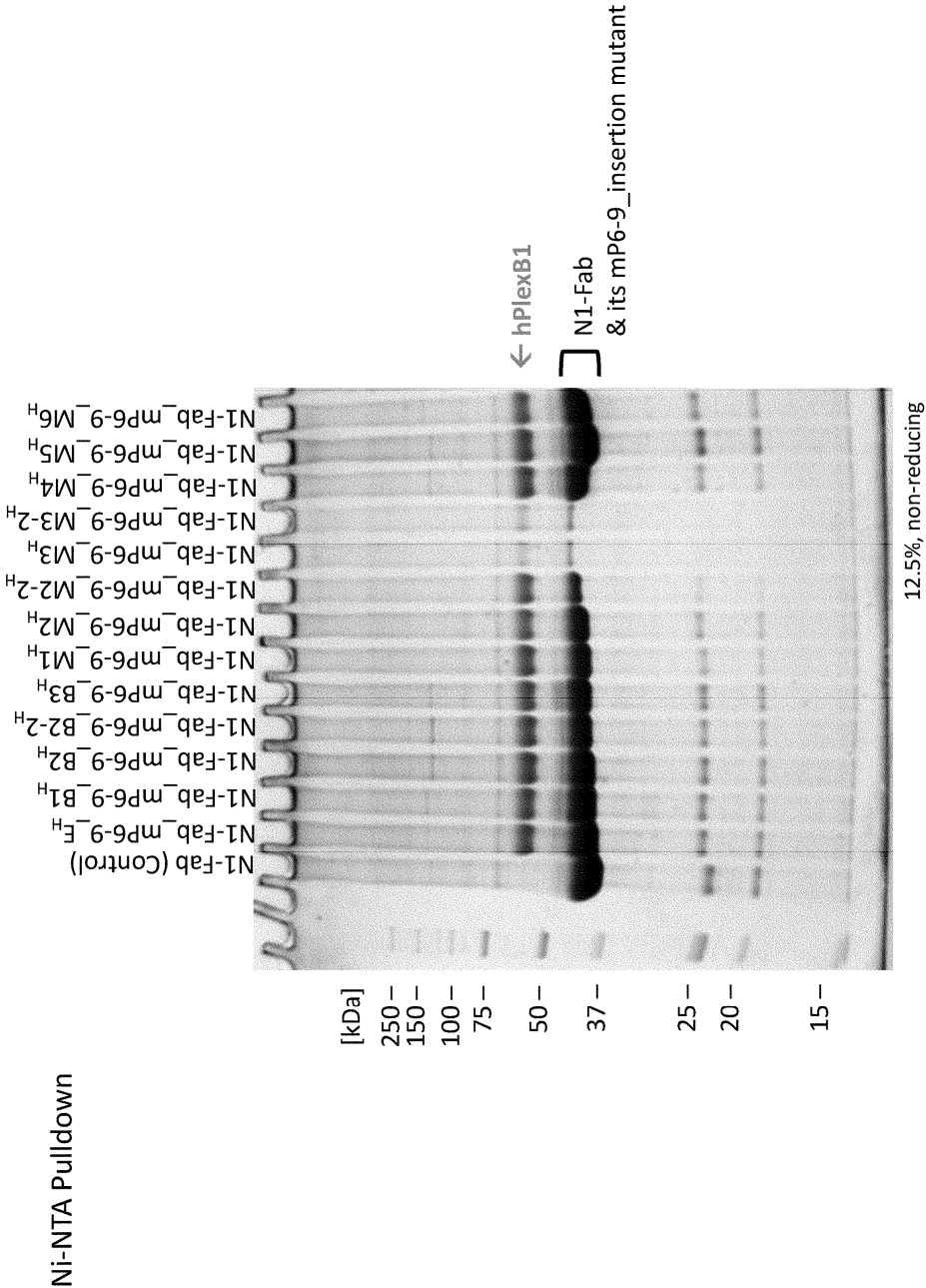
[FIG.16]

N1-Fab (mP6-9 insertion) Expression check

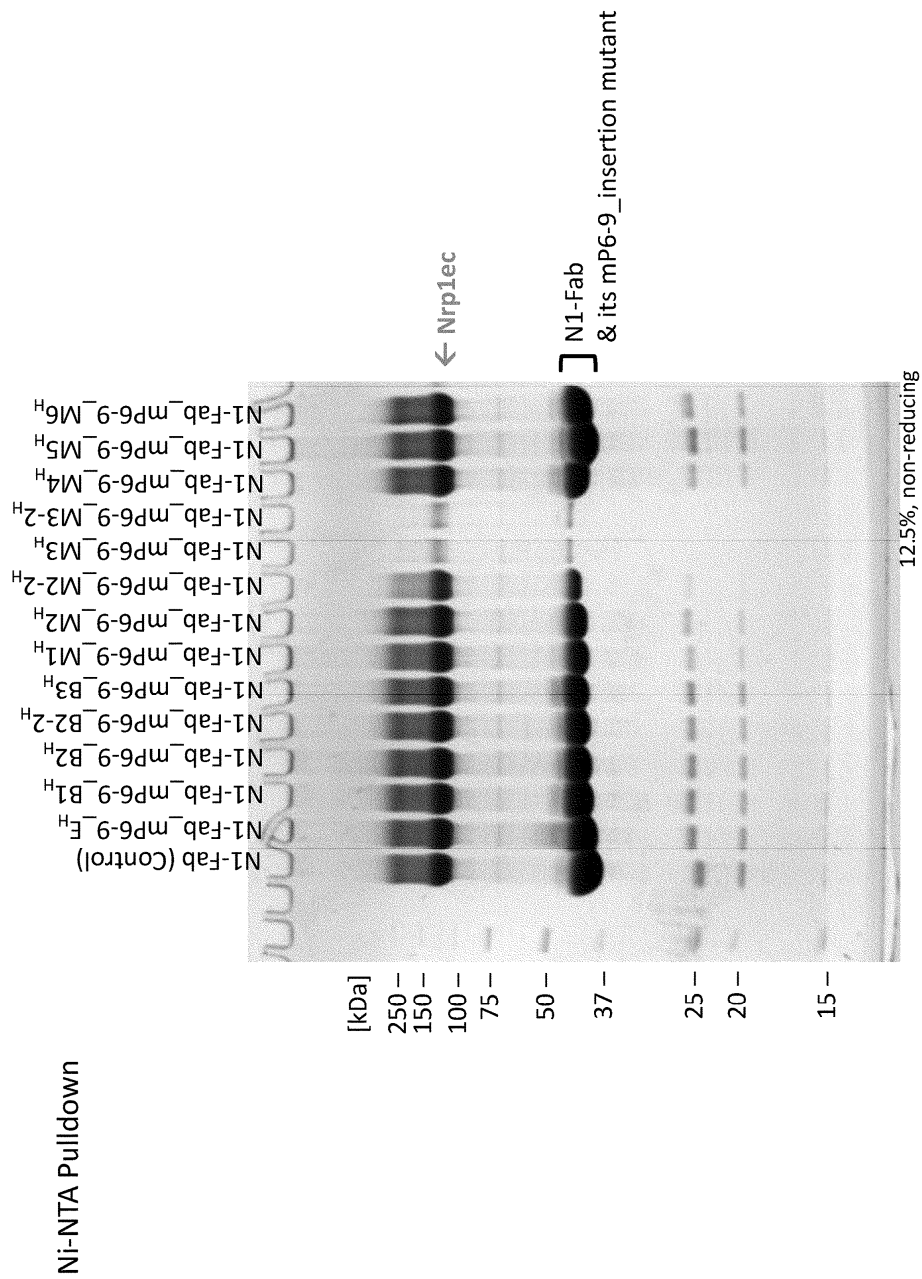


[FIG.17]

N1-Fab (mP6-9 insertion) hPlexB1 binding check



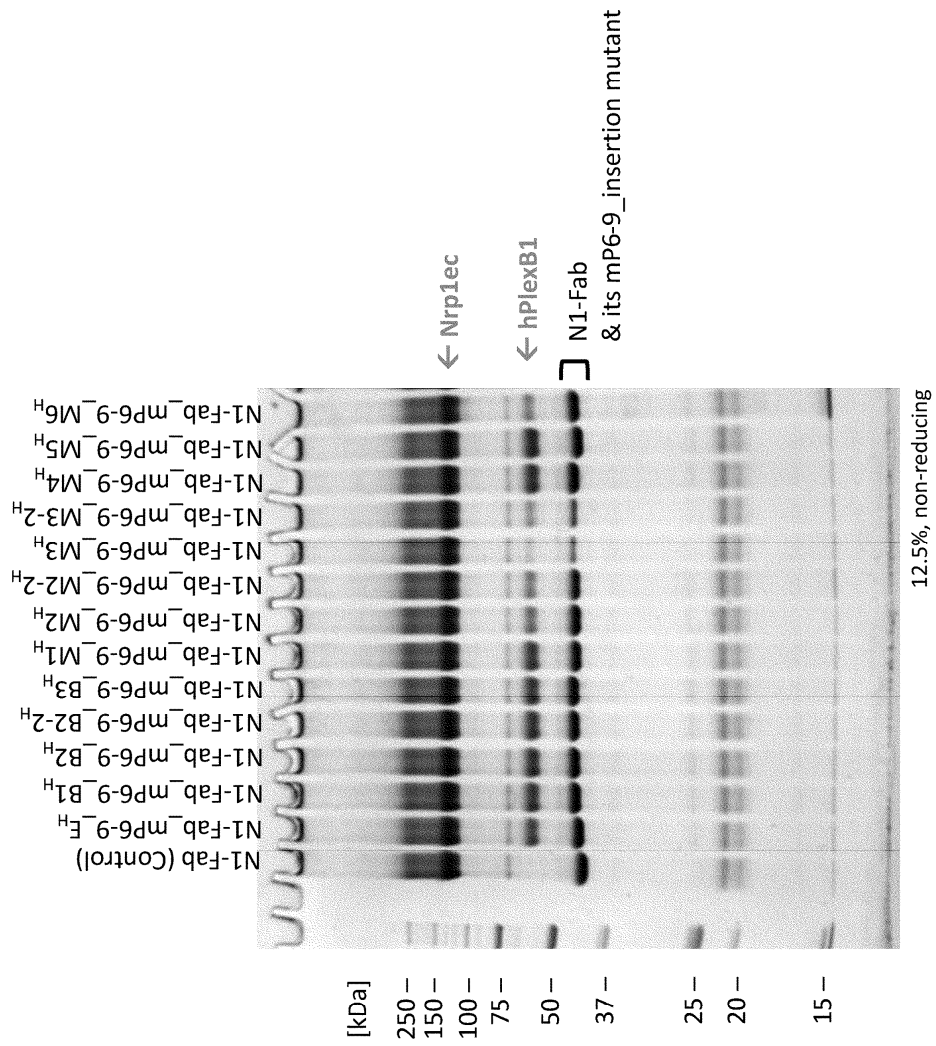
N1-Fab (mP6-9 insertion) Nrp1ec binding check



[FIG.18]

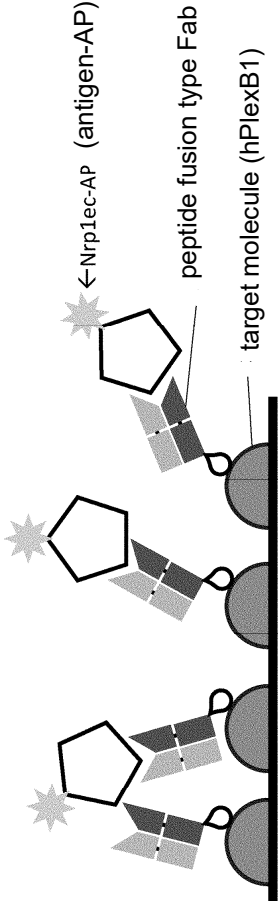
N1-Fab (mP6-9 insertion) Nrp1ec, hPlexB1 binding check (1)

Anti-FLAG tag Pulldown



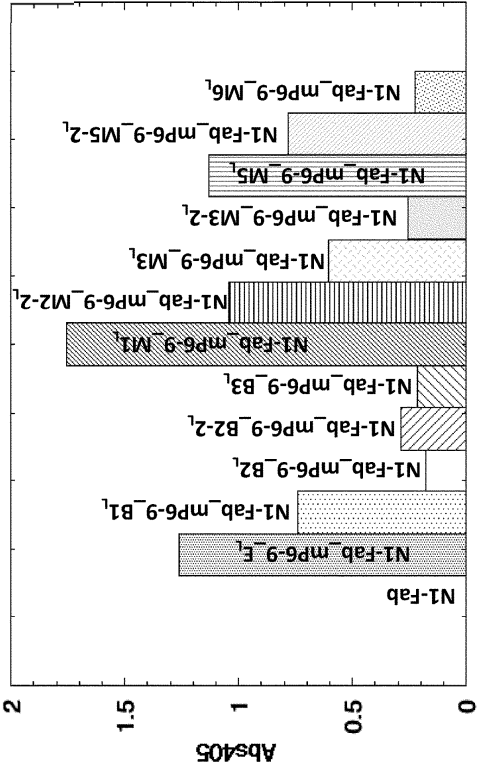
[FIG.20]

N1-Fab (mP6-9 insertion) Nrp1ec, hPlexB1 binding check
(A)AP-assay

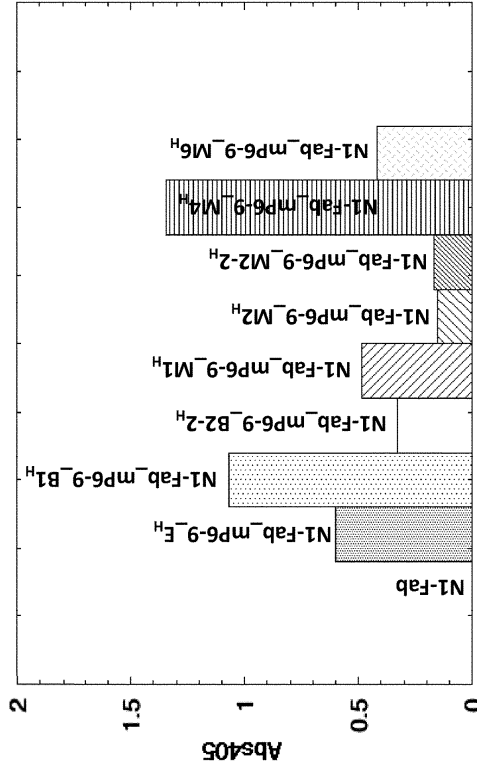


(B)

L chain mP6-9 insertion



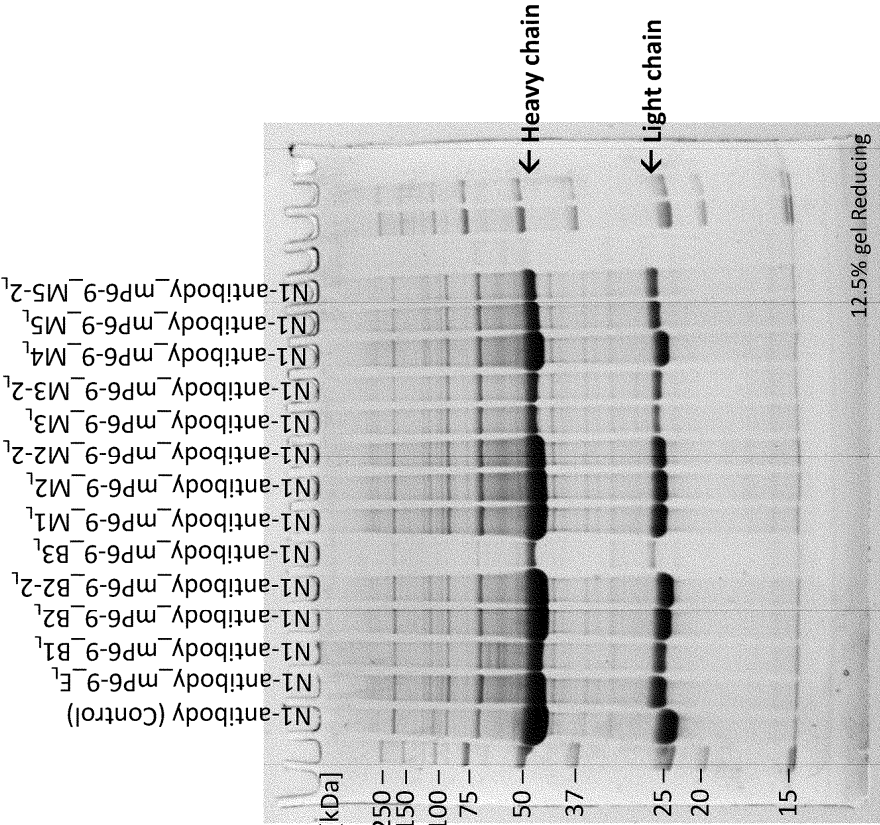
H chain mP6-9 insertion



[FIG.21]

N1-IgG (mP6-9 insertion) Expression check

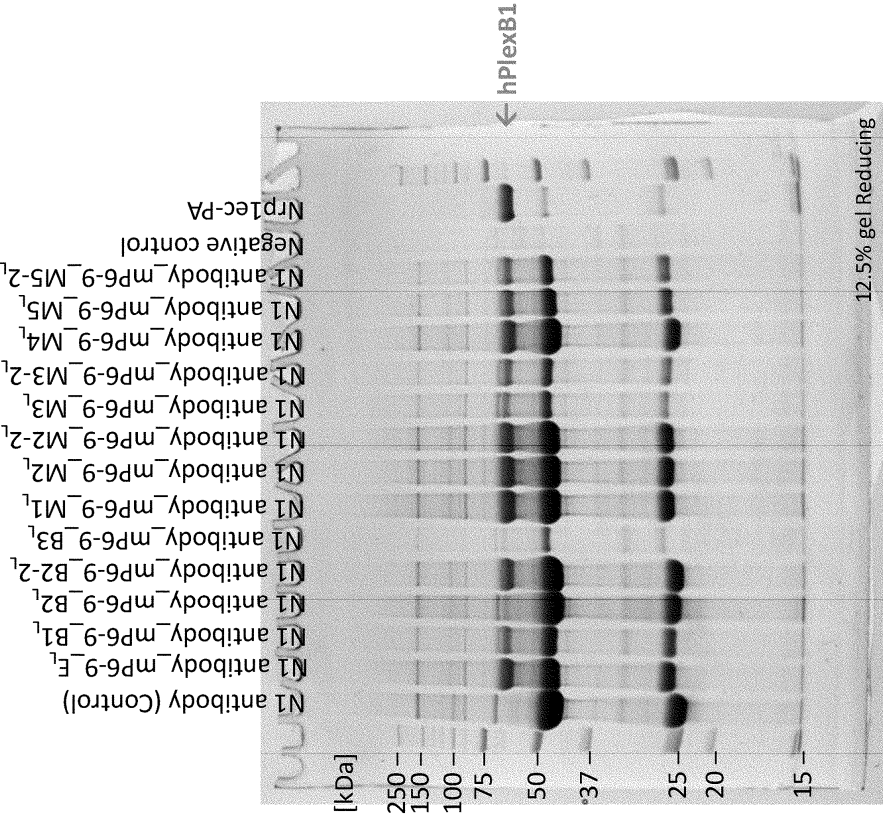
rProteinA Pulldown



[FIG.22]

N1-IgG (mP6-9 insertion) hPlexB1 binding check

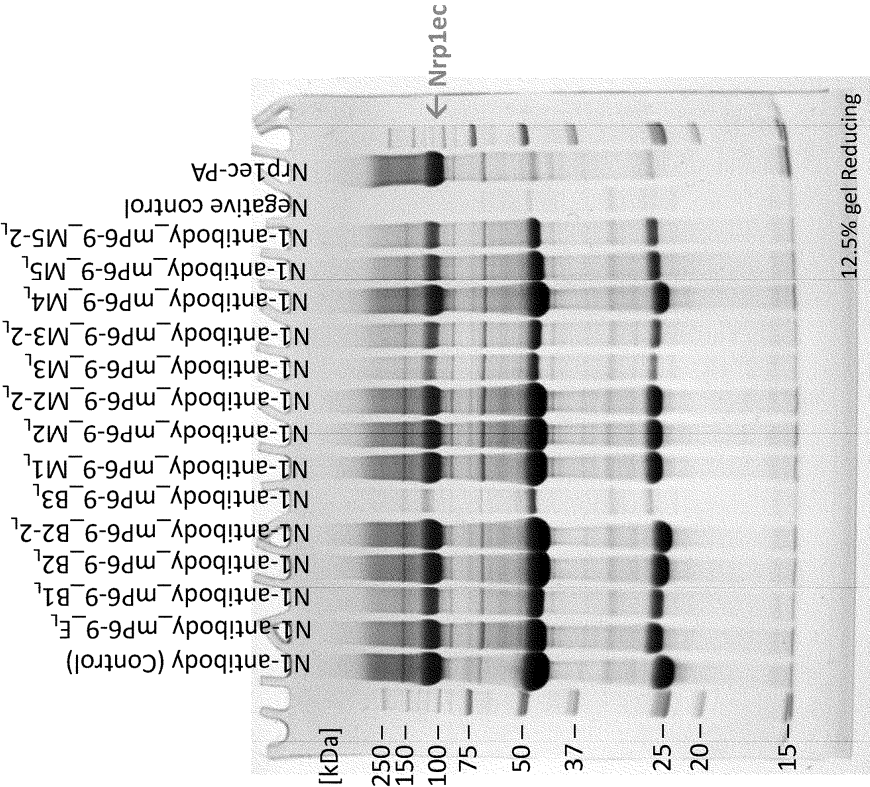
rProteinA Pulldown



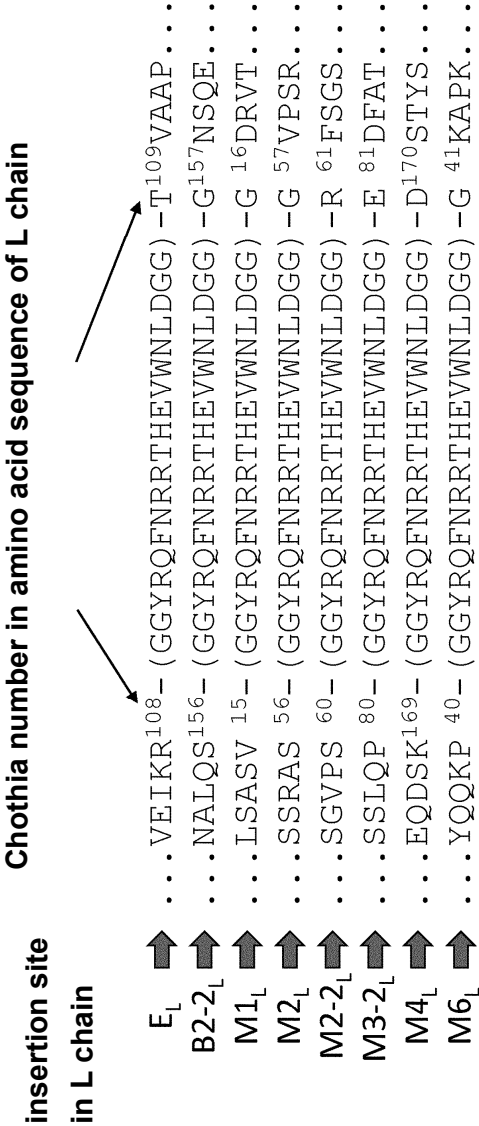
[FIG.23]

N1-IgG (mP6-9 insertion) Nrp1ec binding check

rProteinA Pulldown

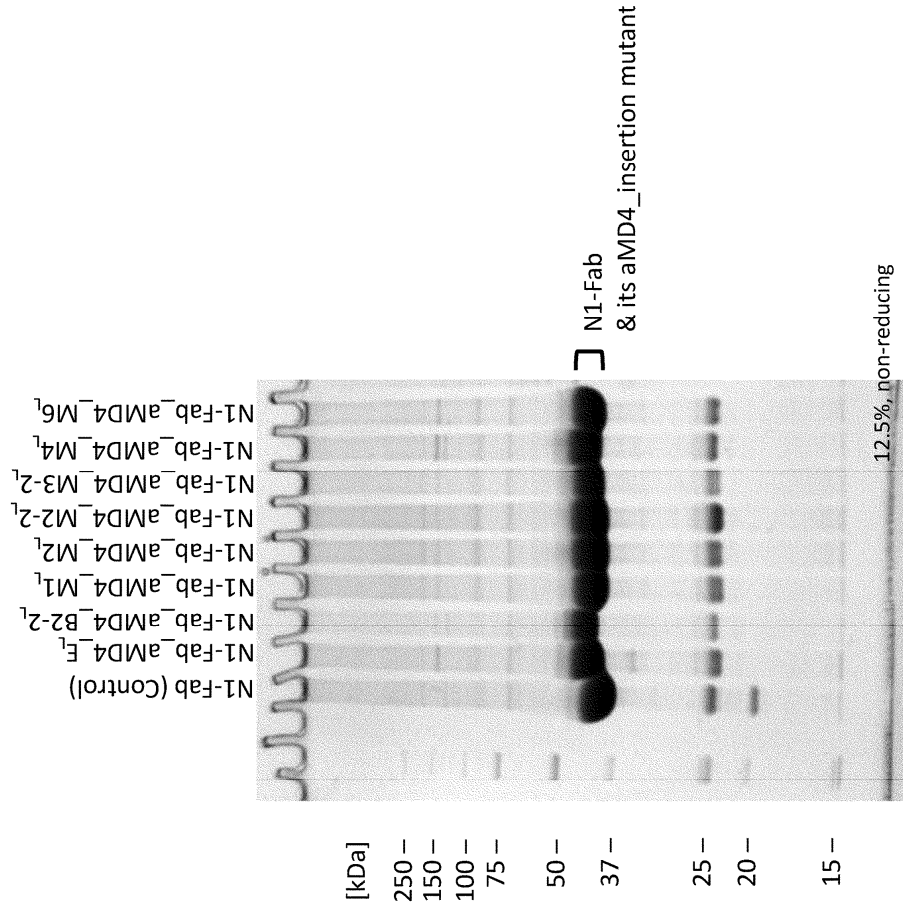


[FIG.24]



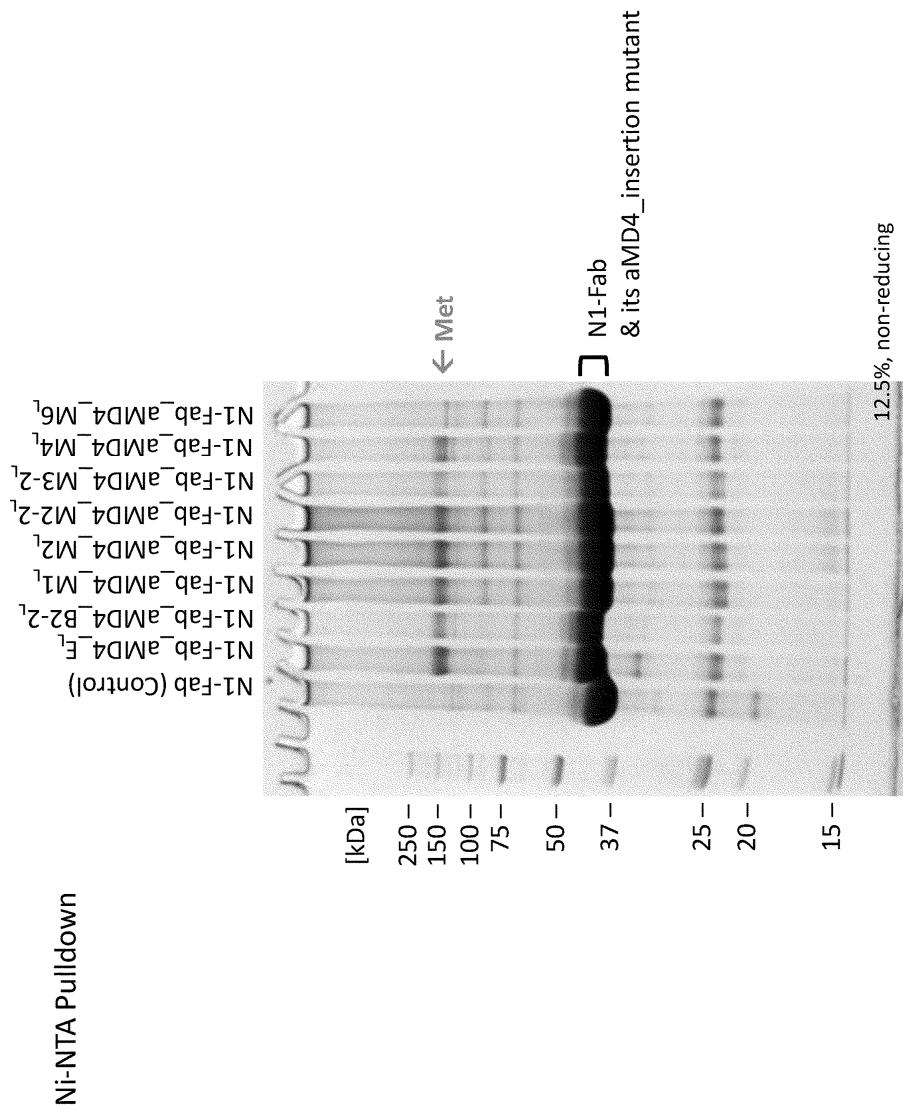
N1-Fab (aMD4 insertion) Expression check

Ni-NTA Pulldown



[FIG.25]

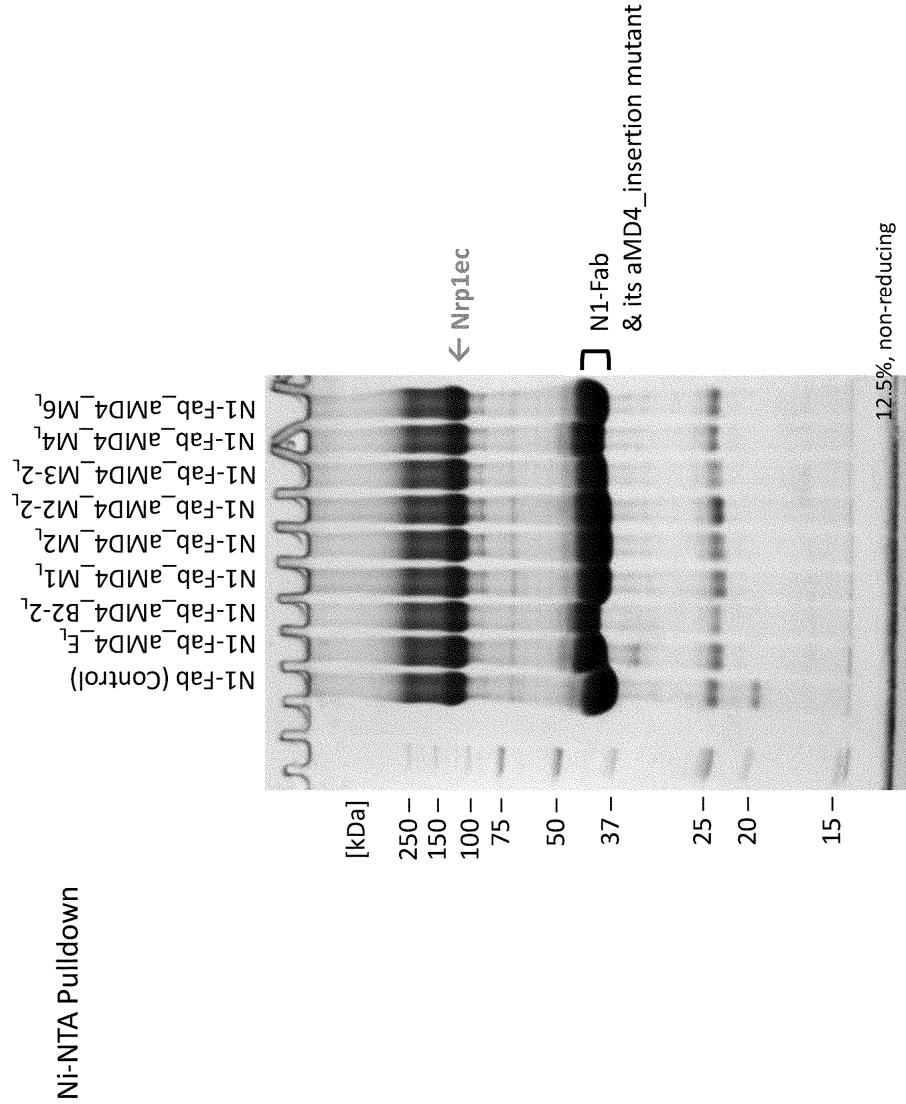
N1-Fab (aAMD4 insertion) Met binding check



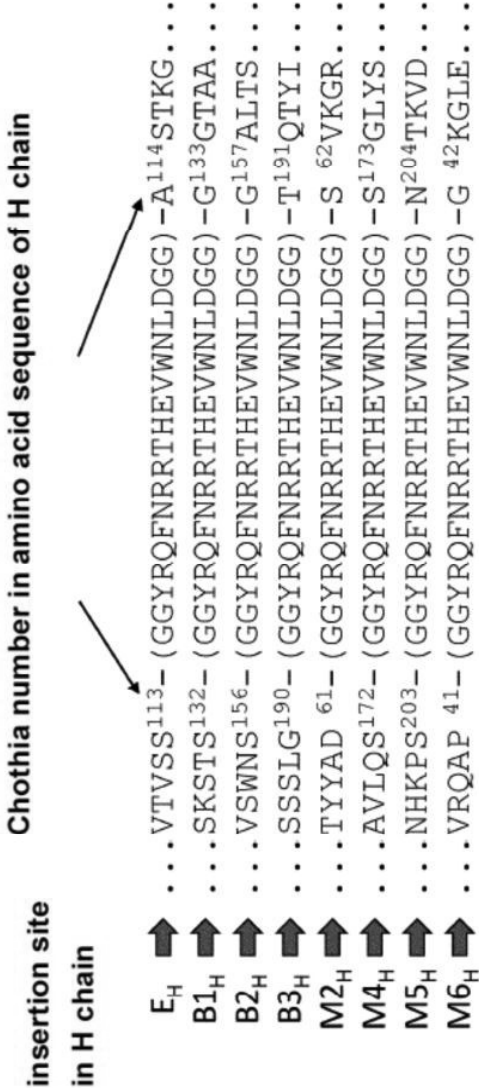
[FIG.26]

N1-Fab (aAMD4 insertion) Nrp1ec binding check

[FIG.27]

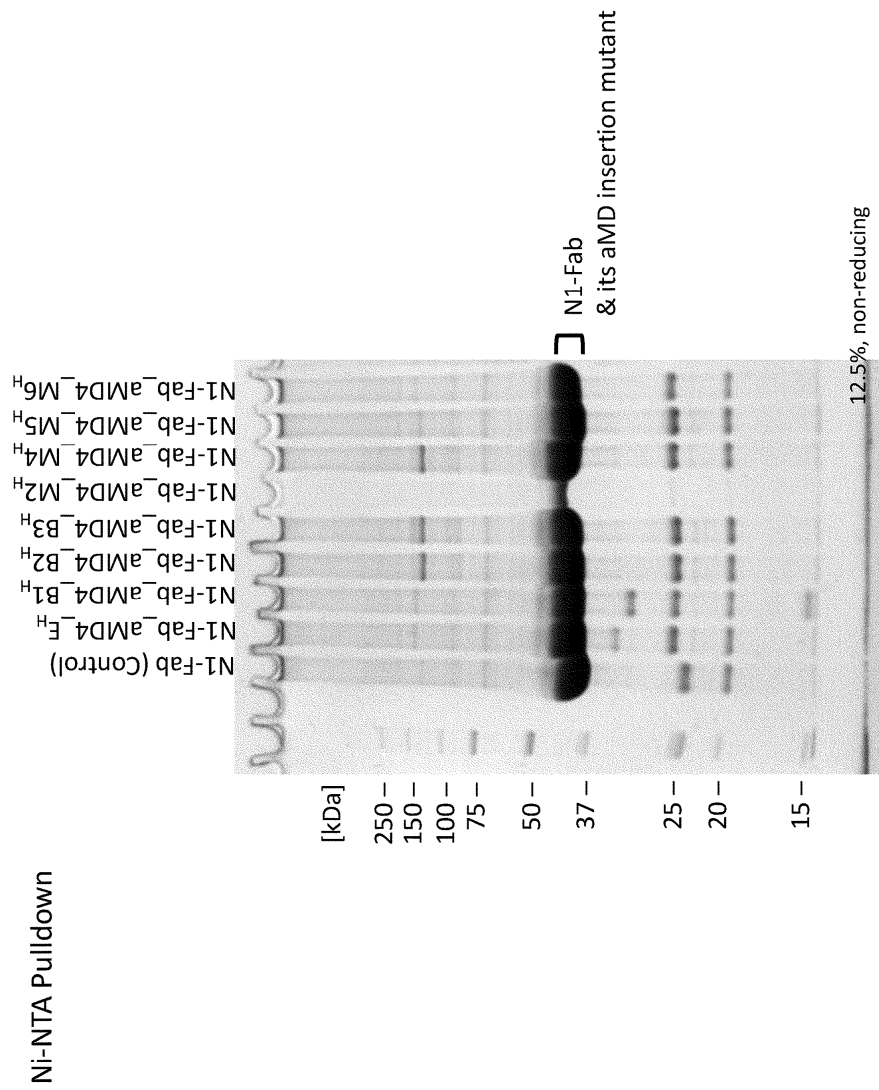


[FIG.28]



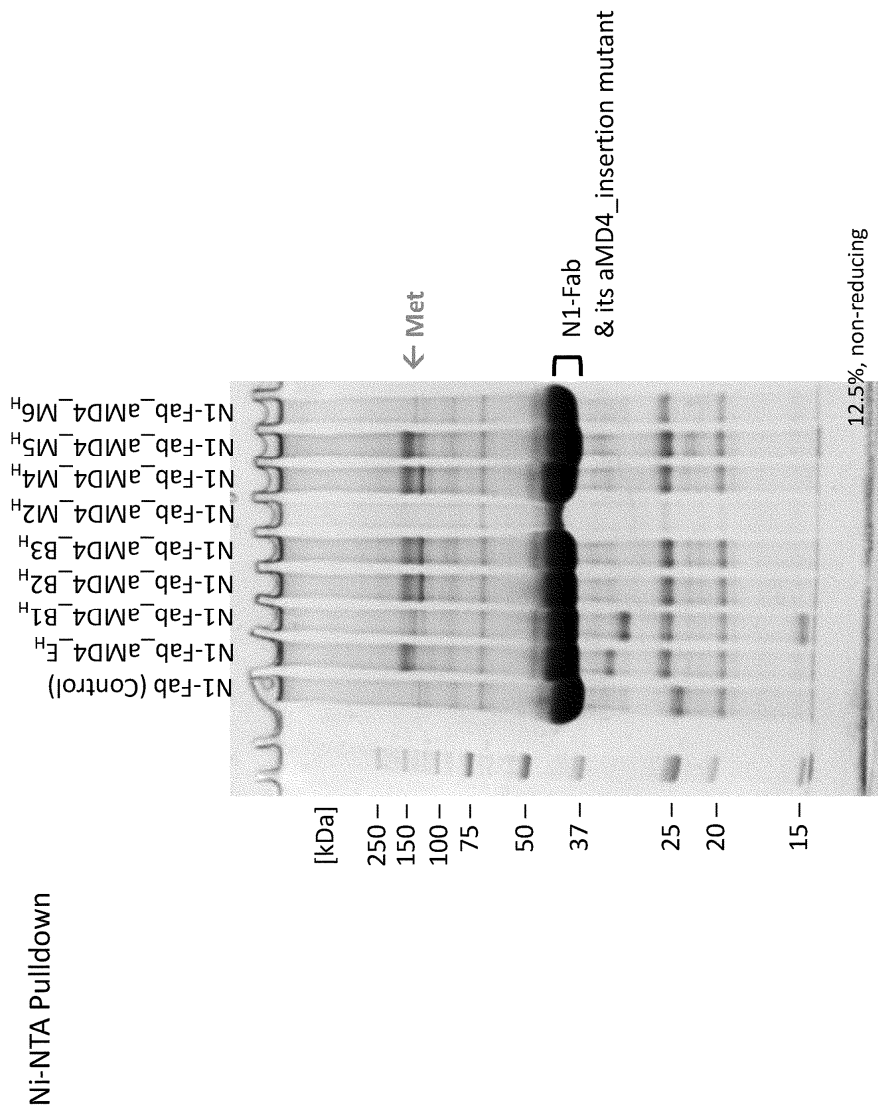
N1-Fab (aMD4 insertion) Expression check

[FIG.29]



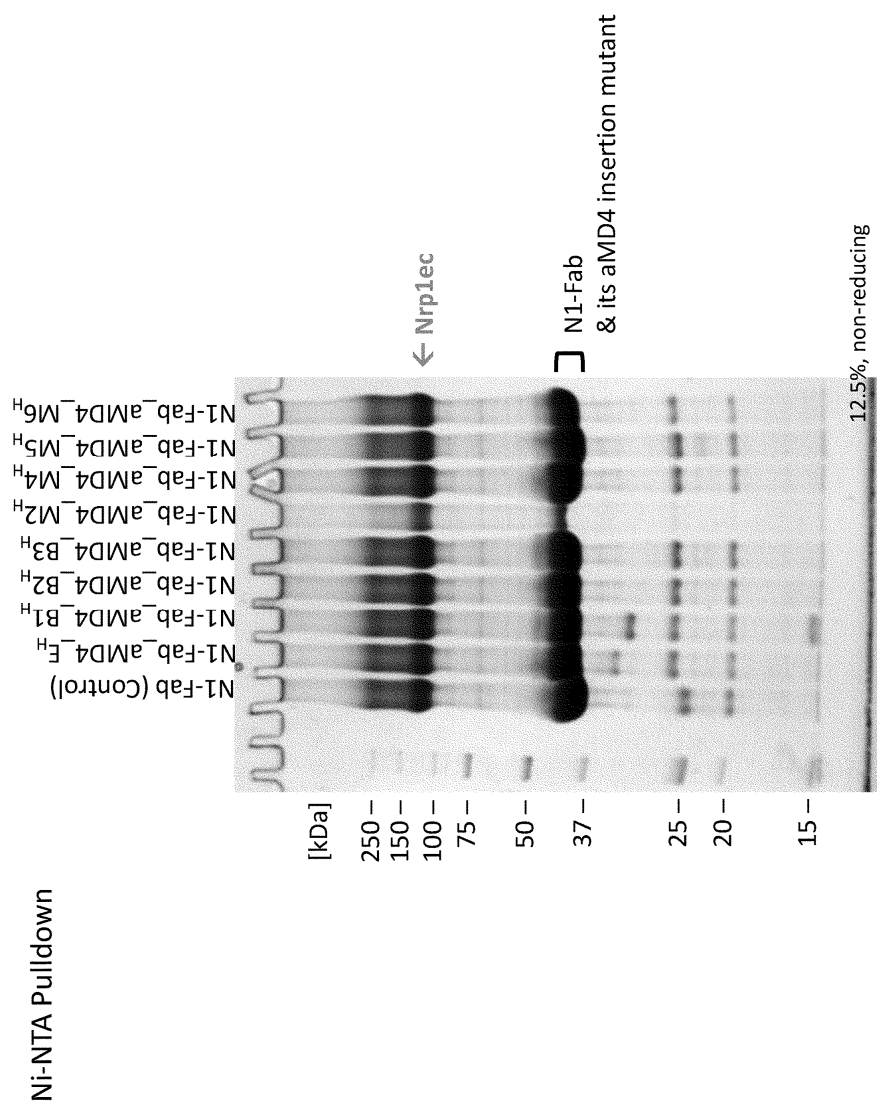
N1-Fab (aMD4 insertion) Met binding check

[FIG.30]



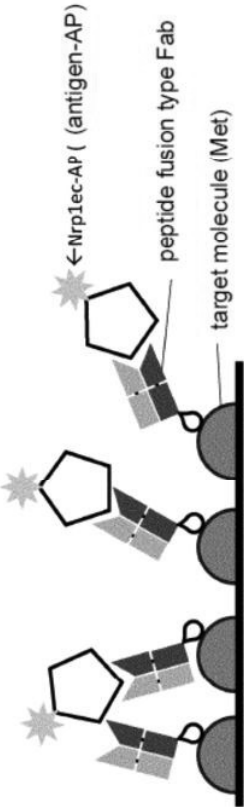
N1-Fab (aMD4 insertion) Nrp1ec binding check

[FIG.31]

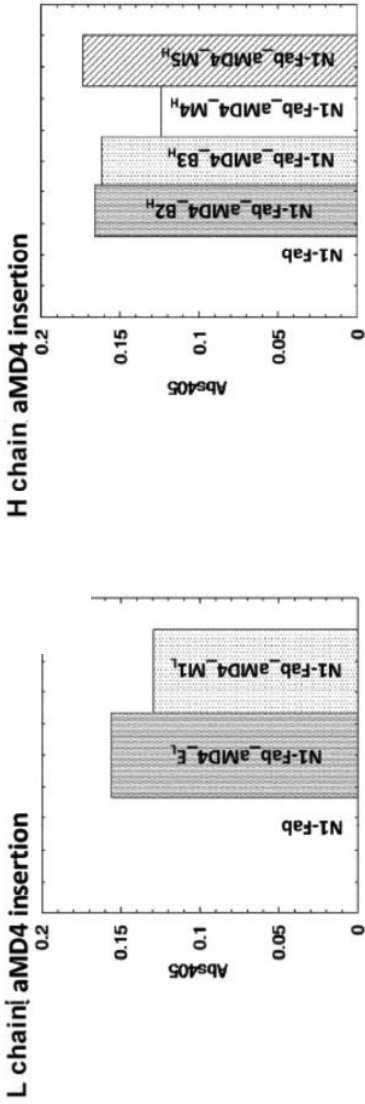


[FIG.32]

N1-Fab (aMD4 insertion) Nrp1ec, Met binding check
(A)AP-assay

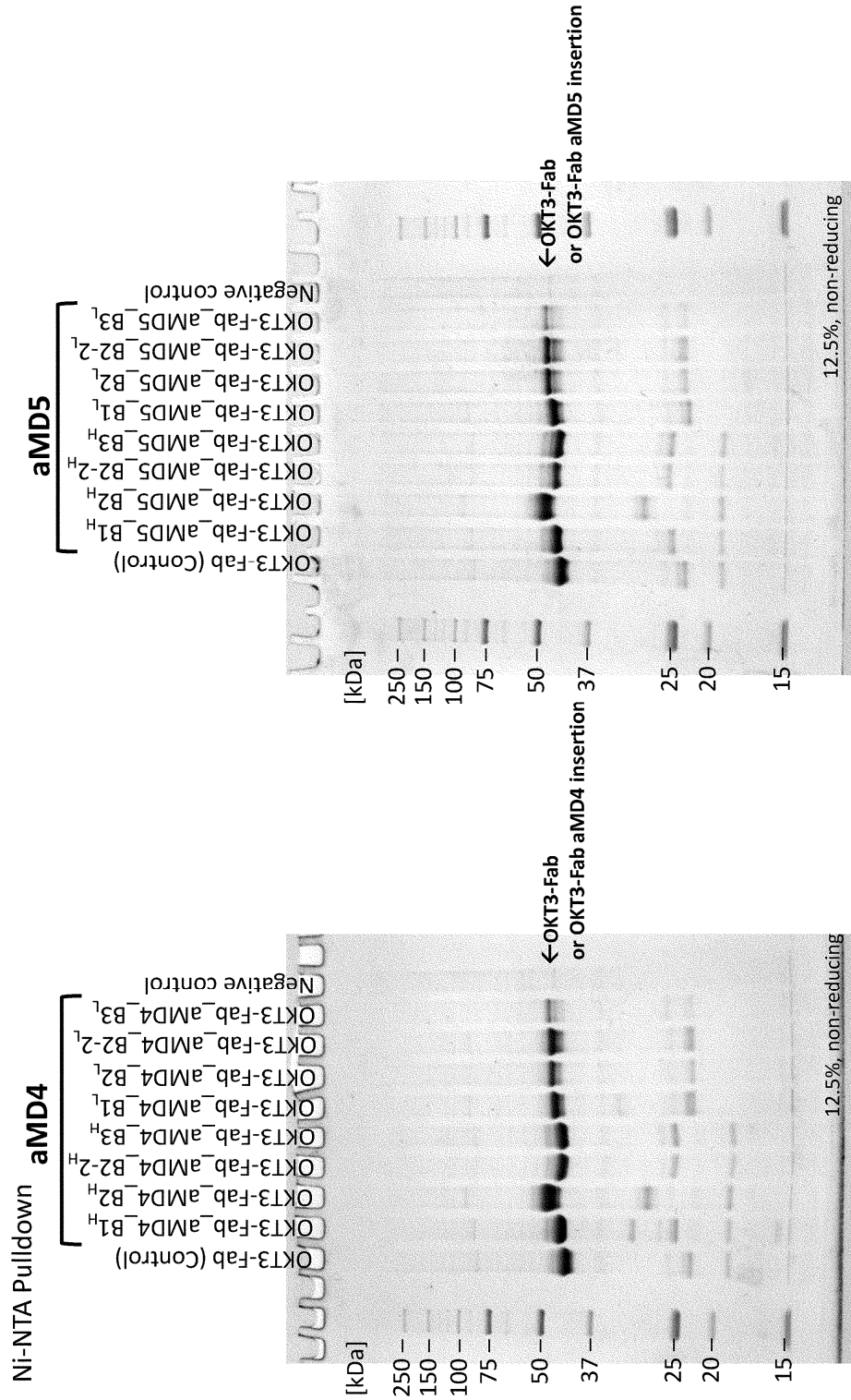


(B)



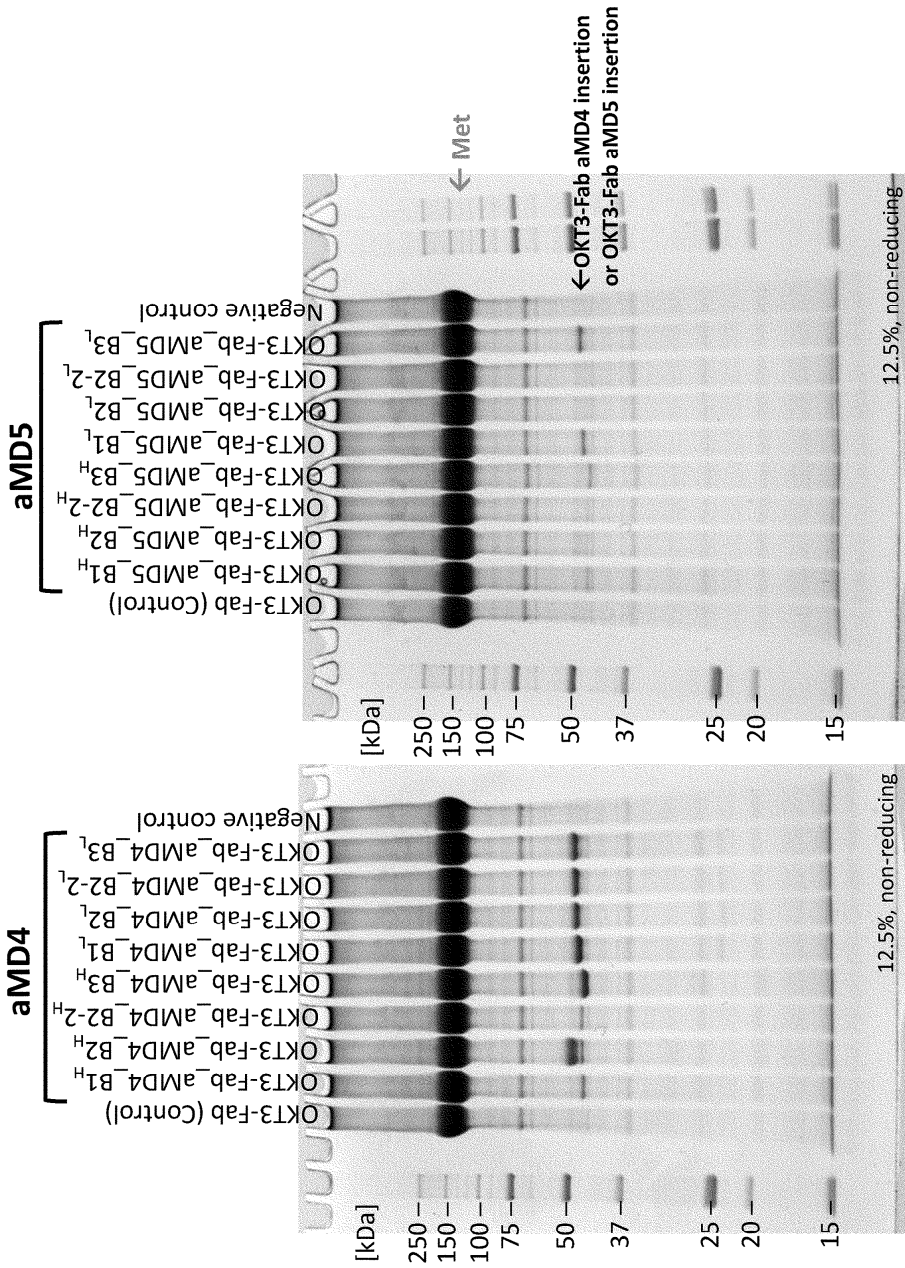
[FIG.33]

OKT3-Fab (aMD4 or aMD5 insertion) Expression check



OKT3-Fab (aAMD4 or aAMD5 insertion) Met Binding check

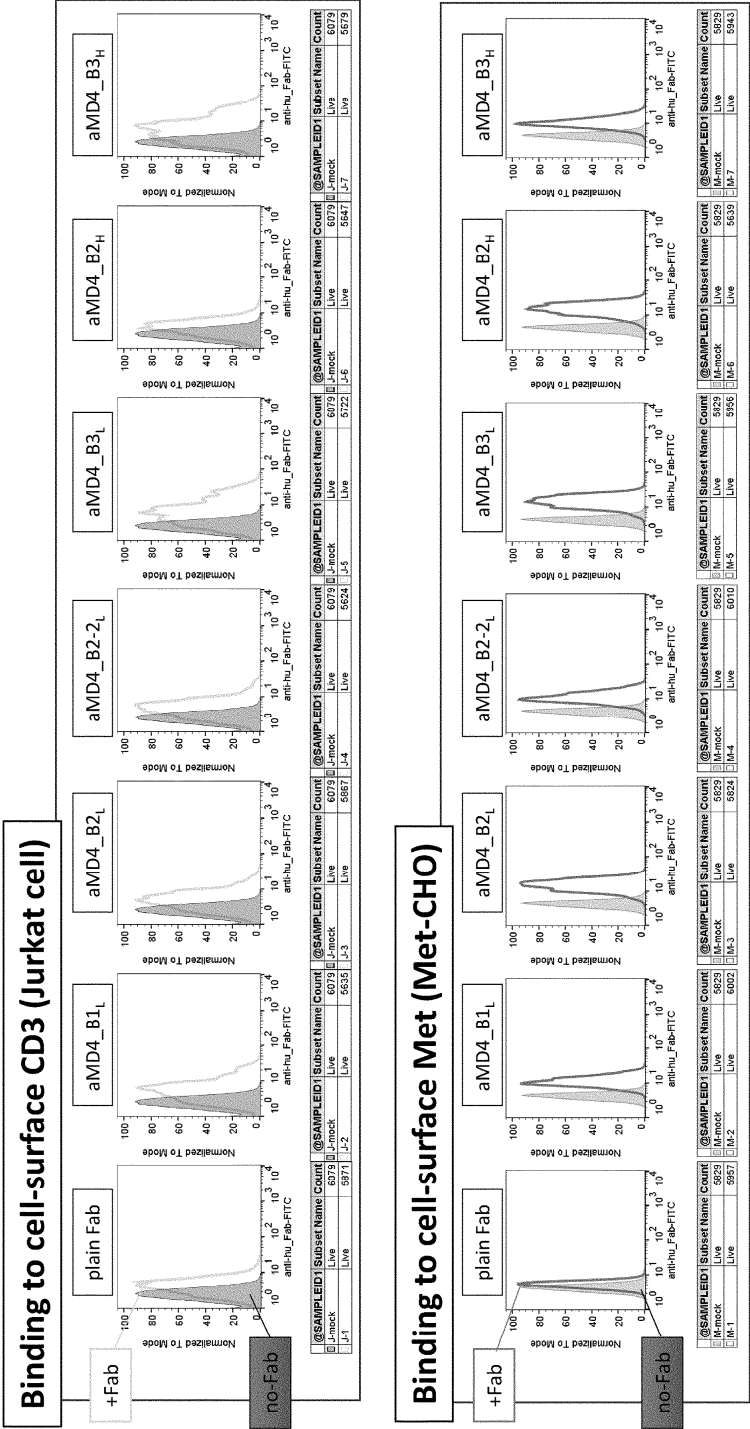
PA tag Pulldown



[FIG.34]

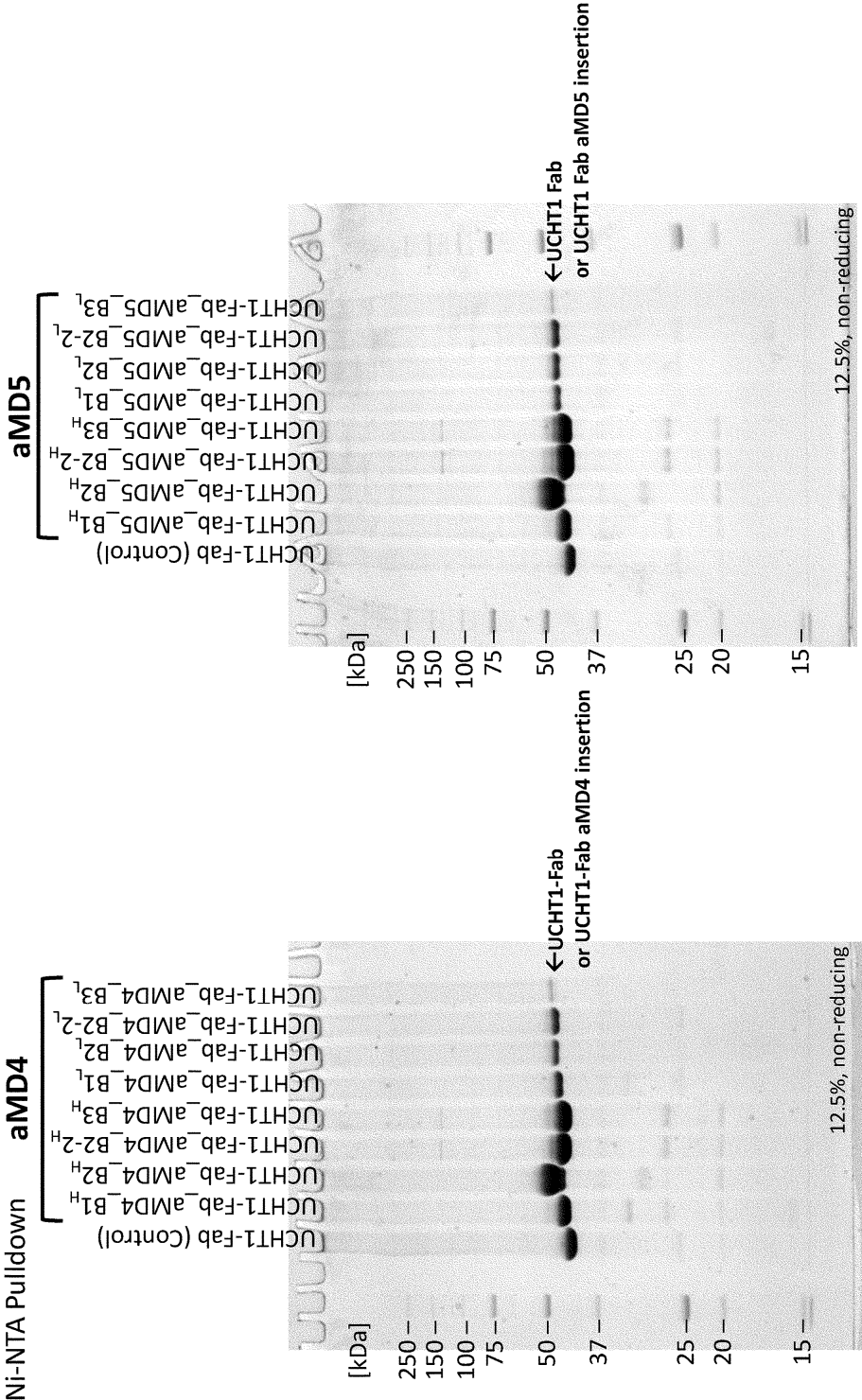
[FIG.35]

OKT3-Fab (aAMD4 insertion) Binding check for cell-surface CD3 and Met by FACS



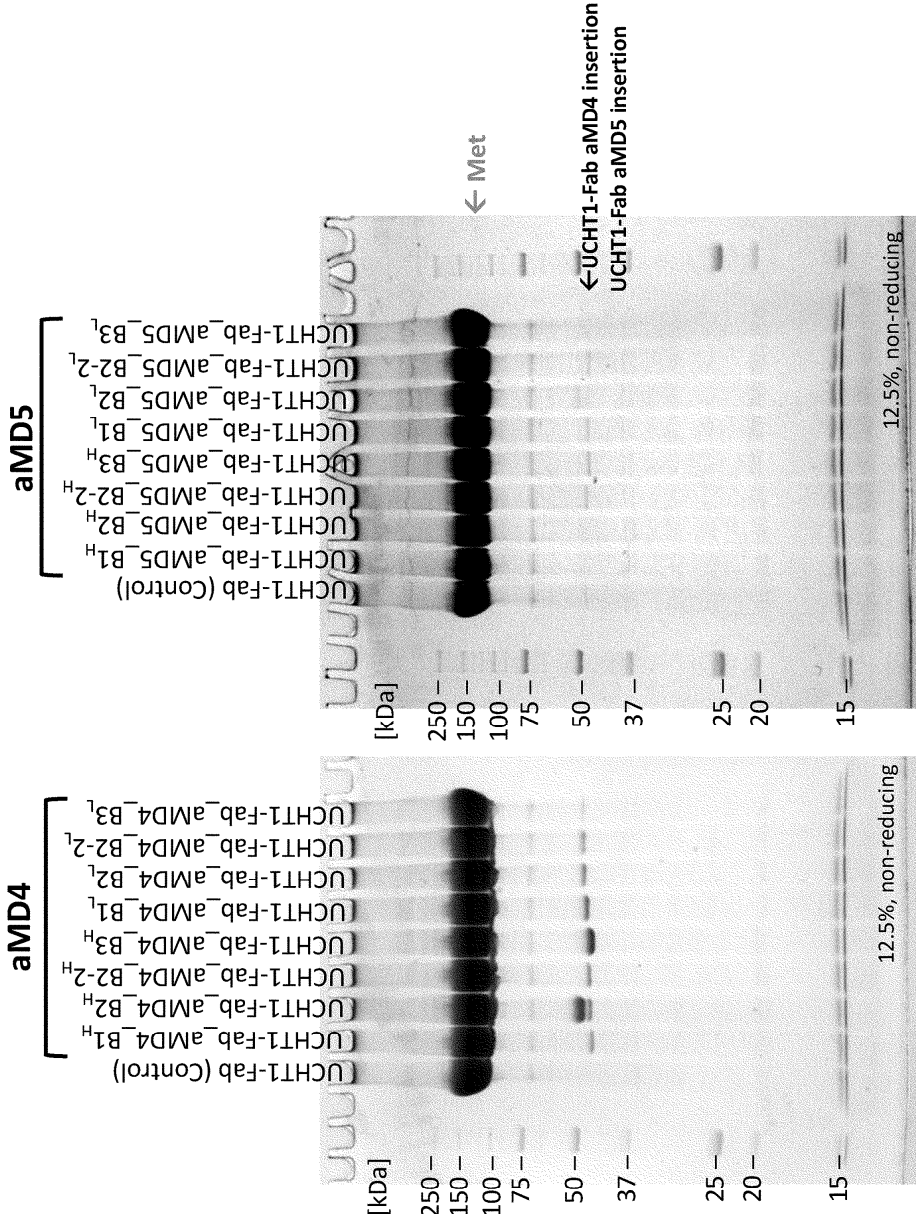
[FIG.36]

UCHT1-Fab (aMD4 or aMD5 insertion) Expression check



UCHT1-Fab (aAMD4 or aAMD5 insertion) Met Binding check

PA tag Pulldown

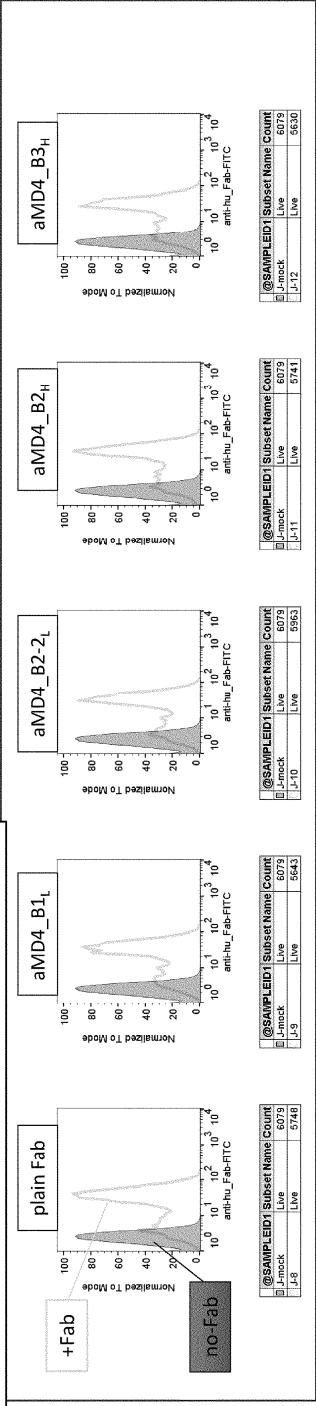


[FIG.37]

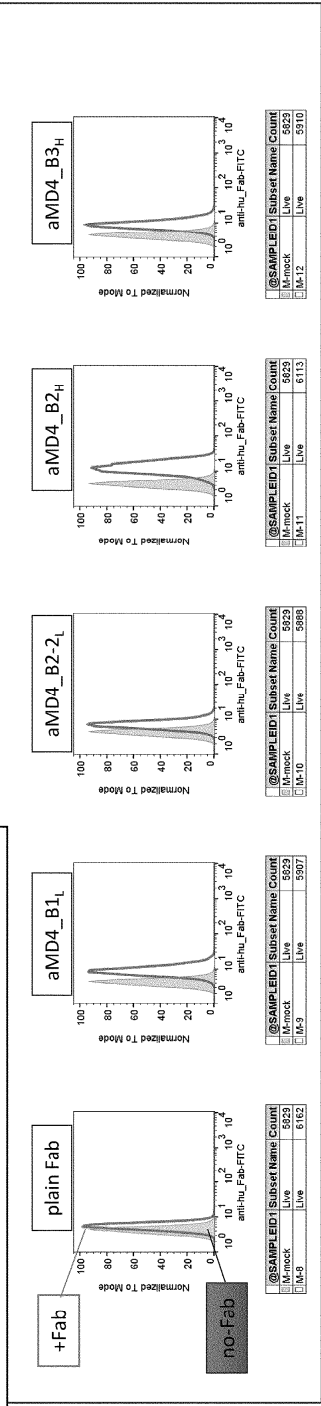
[FIG.38]

UCHT11-Fab (aMD4 insertion) Binding check for cell-surface CD3 and Met by FACS

Binding to cell-surface CD3 (Jurkat cell)

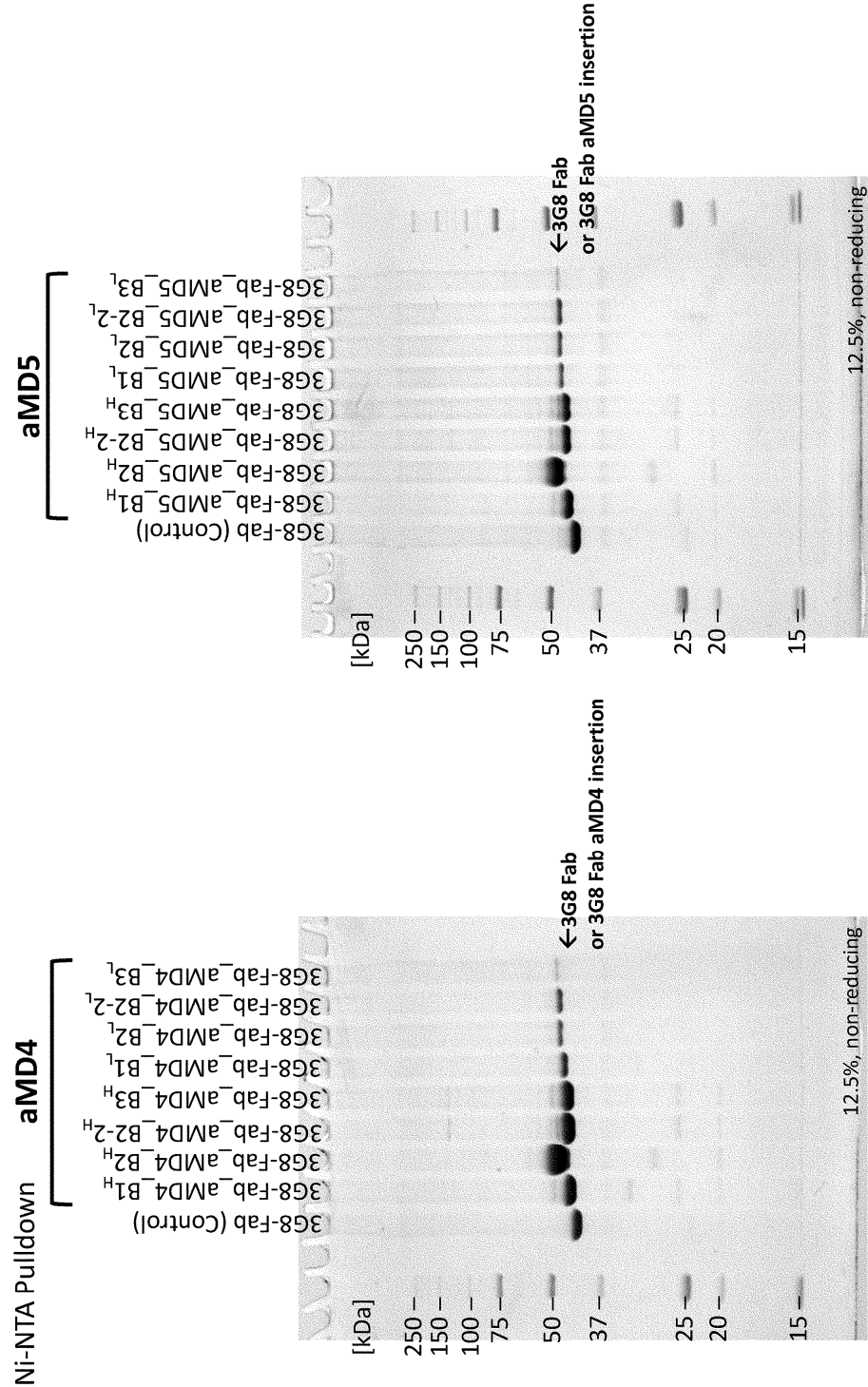


Binding to cell-surface Met (Met-CHO)



3G8-Fab (aAMD4 or aAMD5 insertion) Expression check

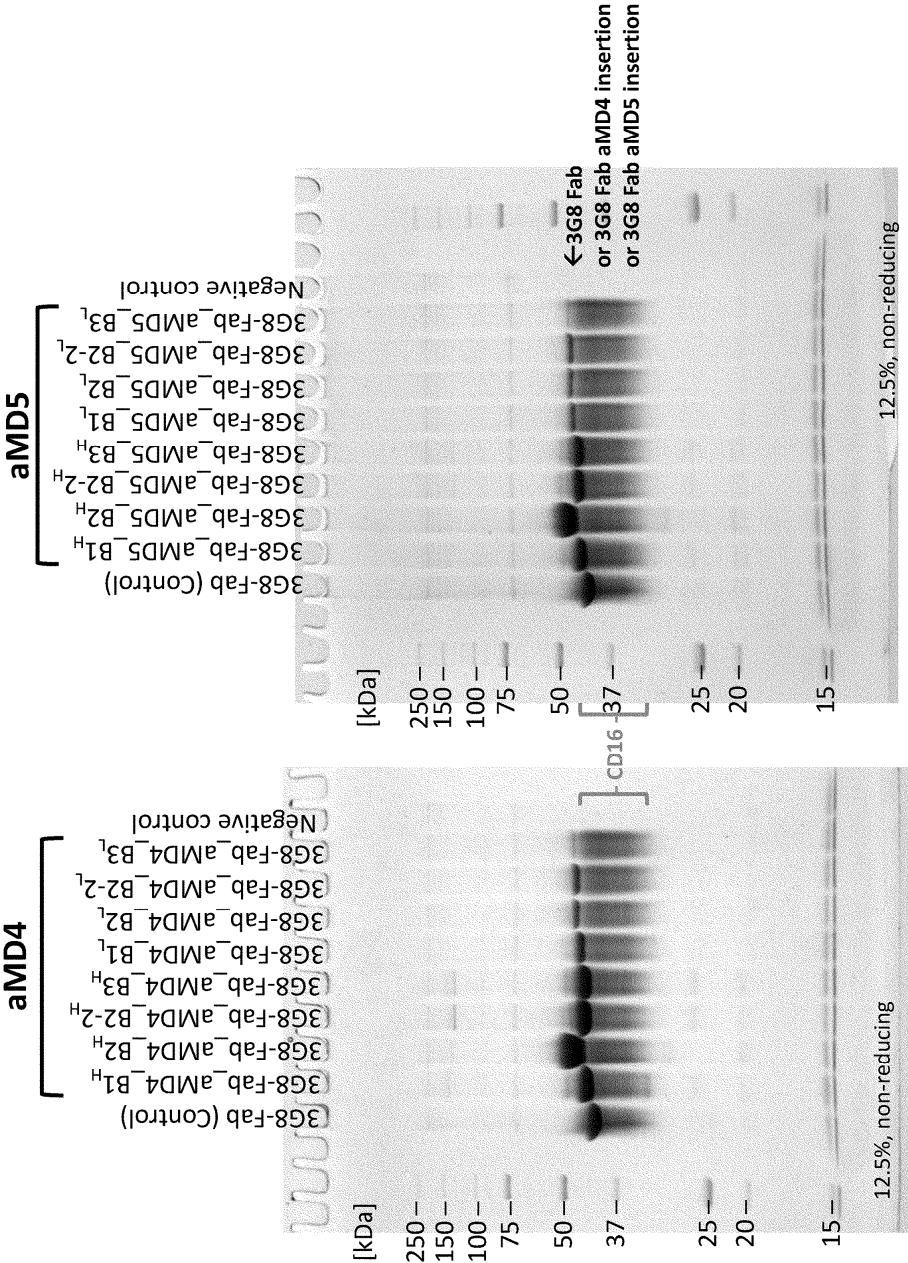
[FIG.39]



[FIG.40]

3G8-Fab (aAMD4 or aAMD5 insertion) CD16 Binding check

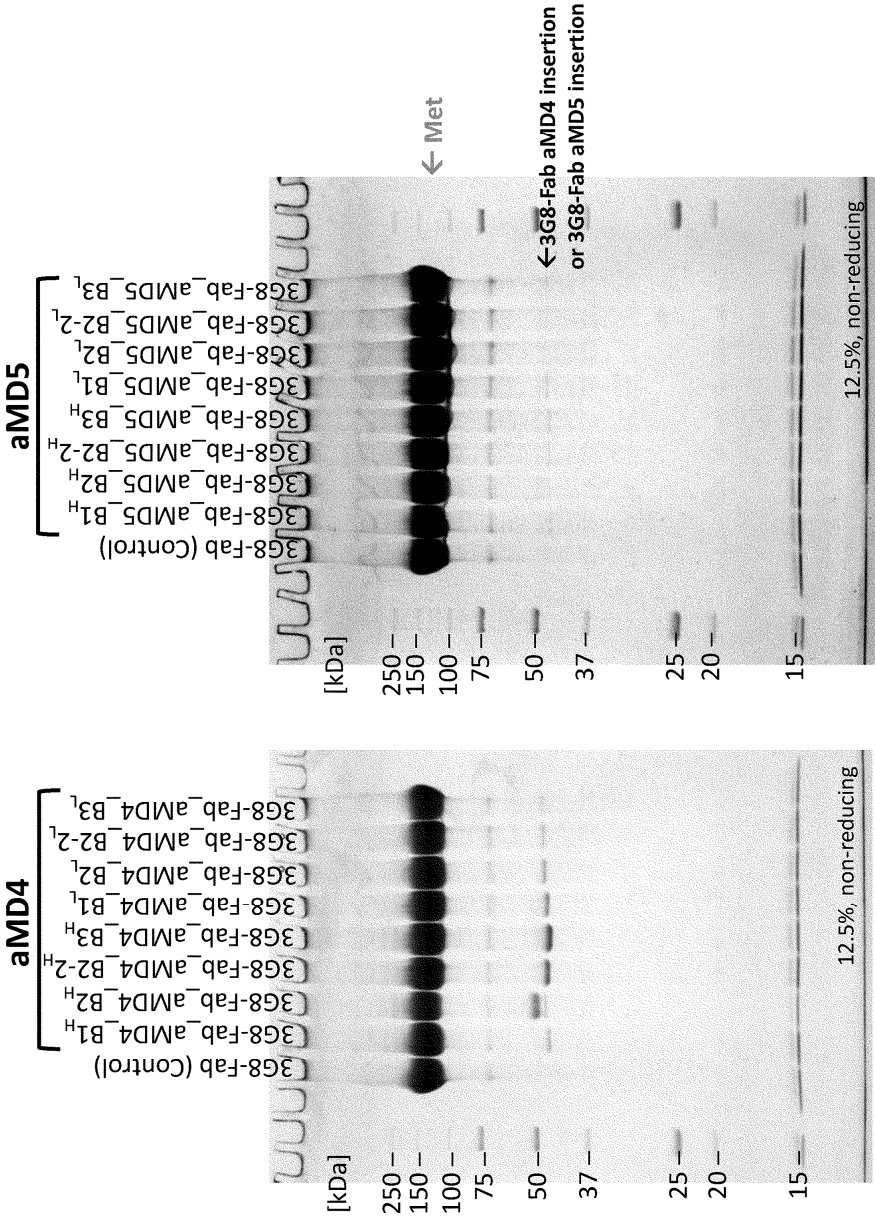
PA tag Pulldown



[FIG.41]

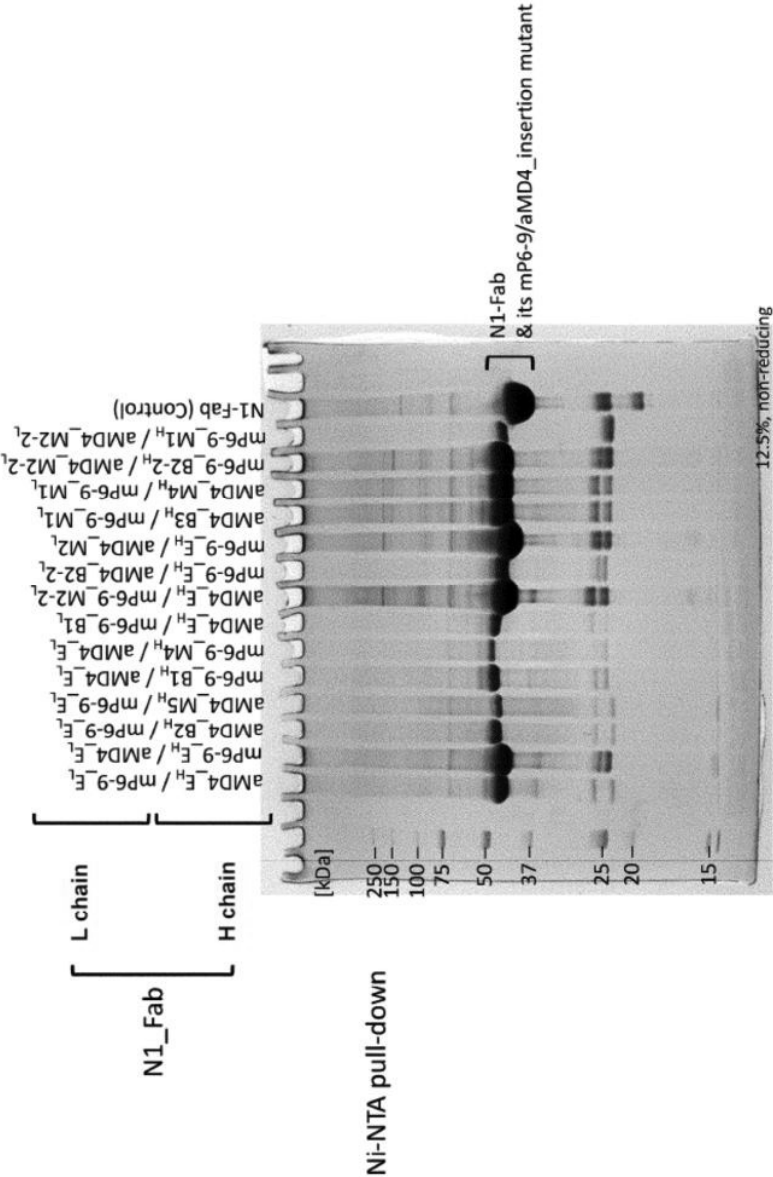
3G8-Fab (aAMD4 or aAMD5 insertion) Met Binding check

PA tag Pulldown



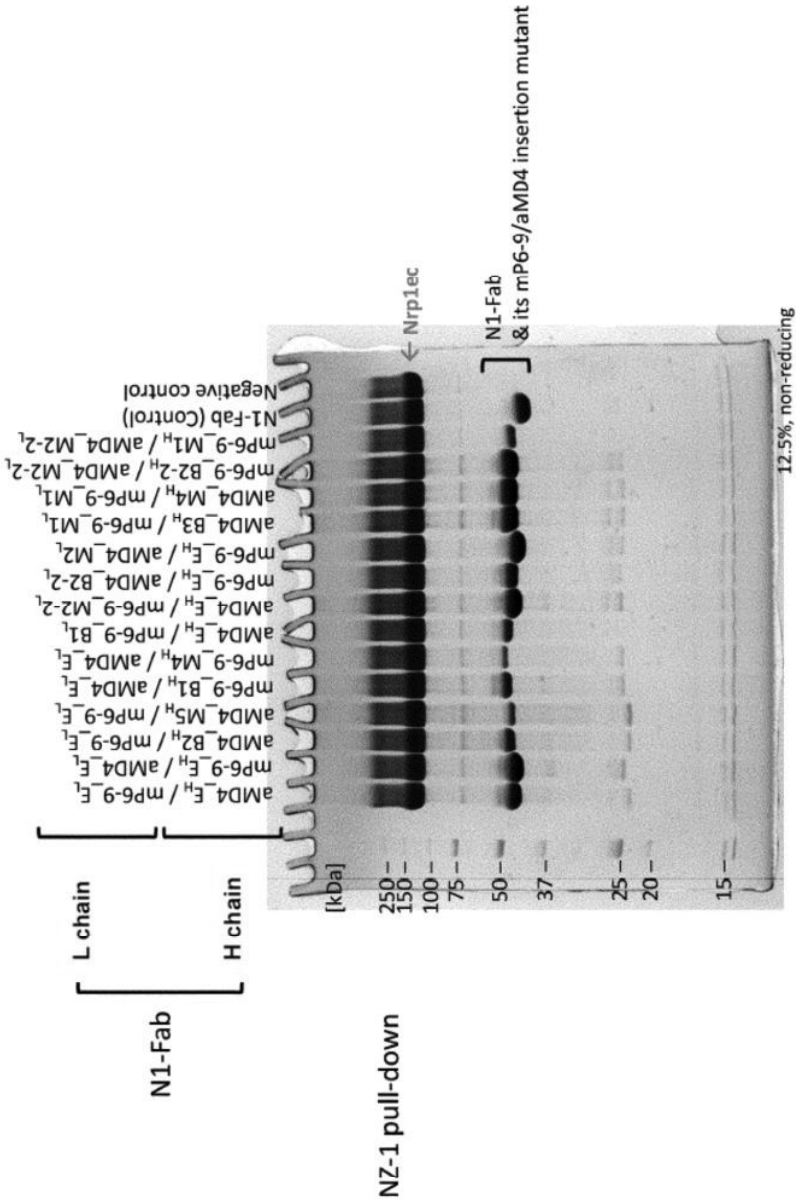
[FIG.42]

N1-Fab (mP6-9/aMD4 insertion in L or H chain) Expression check



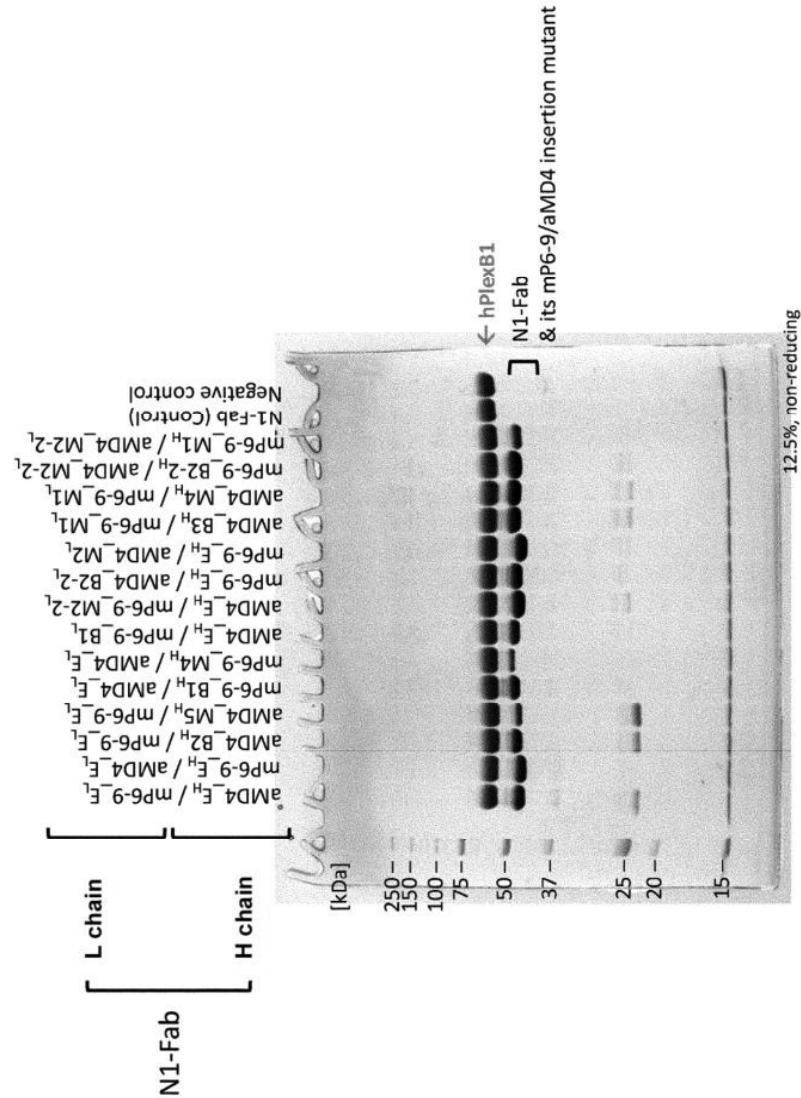
[FIG.43]

N1-Fab (mP6-9/aMD4 insertion in L or H chain) Nrp1ec Binding check



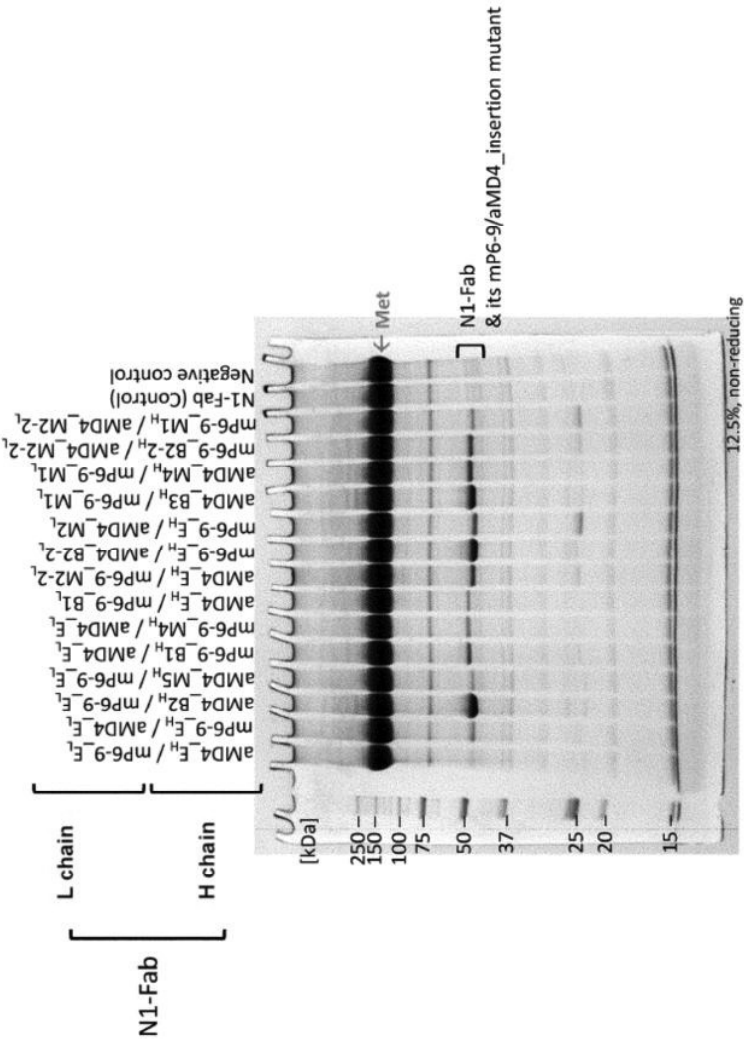
N1-Fab (mP6-9/aMD4 insertion in L or H chain) hPlexB1 Binding check

[FIG.44]



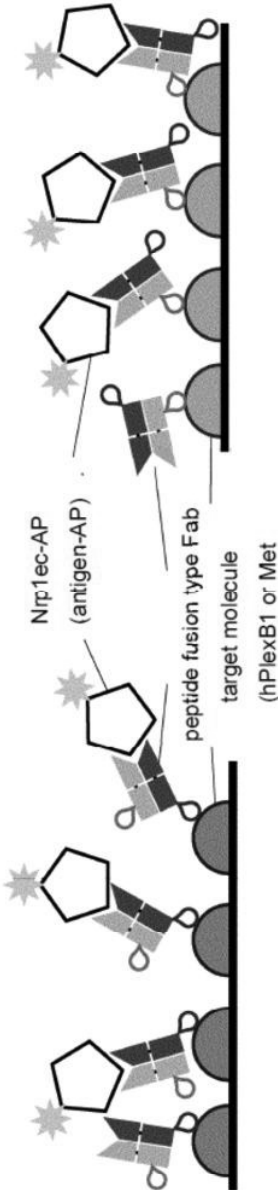
[FIG.45]

N1-Fab (mP6-9/aMD4 peptide insertion in L or H chain) Met Binding check

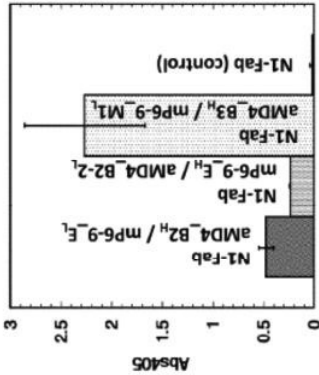


[FIG.46]

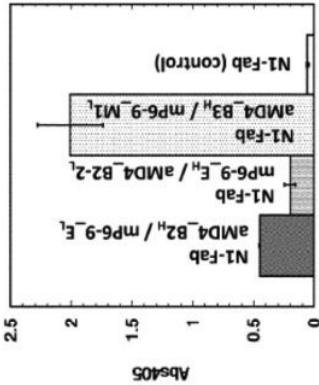
N1-Fab (mP6-9/aMD4 insertion in L or H chain) Binding check
(A)AP-assay



(B) hPlexB1 coated
(Abs405 at 10min)



Met coated
(Abs405 at 30min)



YW64.3 (human, IgG1) heavy chain

Chothia YW64.3	<-----signal-----> 1 10 20 26 31ab 36 40 5052abc54 60 65 MESQTQVLMFLLWVSGAAAEVQLVESGGGLVQPGGSLRLSCAASGFSFS--EPISWVRQAPGKLEWVSSITG--KNGITYYADSVKG	<-----H1-----> <-----H2----->
Chothia YW64.3	70 82abc84 90 100abcdefghijklmnopqrstuvw103 110113 RFTISADTSKNTAYLQMNLSRAEDTAVYCARWGKKVYGM-----DVMGQGTLLTVTSS ASTKGPVSFVFLAPSSKSTSGCTAALGCL	-----V region-----><-----D region-----><-----J-----> <-----H3-----> <-----CH1----->
YW64.3	VKDYFPEPVTVSNNGALTSGVHTTFAVLQSSGLYSLSVVTVTPSSSLGTQTYICNVNHPKNTKVDKKVEPK-SCDKTHTCEPPCPAPELLGGPS	-----CH1-----> <-----hinge----->
YW64.3	VFLFPPKPDTLISRPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTSKA	<-----CH2-----> <-----CH3----->
YW64.3	KGQPREPQVYTLPPSRDELTKNQVSLTCLVKFGFYPSDIAVEWESNGQPENNYKTTTPPVLDSDGSSFFLYSKLTVDK	<-----CH3----->
YW64.3	SRWQQGNVFSCSYMHEALHNHYTQKSLSLSPGK	----->

	<---signal----->	<----H1-->	<---H2----->	
Chothia	1	10	20	36
		10	26	31ab
				54
				5052abc
				60
				65
YWG4.3	MESQTVLMFLLWYSAAAEVQLVESGGGLVPGGSLRLSCAASEFSFS-EPISWRQAPKGKLEWVSSTIG-KNGITYYADSVKG			

	<---signal----->	<----H1-->	<---H2----->	
Chothia	1	10	20	36
		10	26	31ab
				54
				5052abc
				60
				65
YWG4.3	MESQTVLMFLLLVSGAAAEVQLVESGGGLVPGGSLRLSCAASEFSFS--EPISWTRQAPKGKLEWVSSTIG--KNGYTTYADSVKG			

	-----V region-----><-----D region-----><-----J-----><-----CH1-----		
Chothia	70	82abc84	90
		100abcdefghi	jklmnopqrstuvw103
			110113
			120
			130
			140
YYW64.3	RFTISADTSKNTAYLOMNSLRAEDTAVYYCARWGKKVGM-----DVWGQGLTVTVSS	ASTKGPSVFPLAPSSKSTSGGTAA	LGCL

[illegible]

[FIG.49]

YW64.3 (human, kappa) light chain

Chothia YW64.3	1	10	23	30	abcde	f32	35	49	56	<---L1-->	<---L2-->			
	--MESQTQVIMELLWVSGAADIQMTQSPSSLSASVGRVTTITCRASQIS-----SYLAWYQQKPGKAPKLLIYGASSRAS													
	-----VL region-----X-----JL----->													
	<-----L3----->													
Chothia YW64.3	58	66ab	70	80	8890	9395	abcde	96	100	104	108	120	130	<-----CL1-----
	GVPSRFSGG--SGTDFTLTISLQPEDFATYCCQYMSVP-----ITFGQTKVEIK R-TVAAPSVFIFPPESDEQLKSGTASVY													
	-----CL1-----													
Chothia YW64.3	140	150	160	170	180	190	200	210	>					
	CLLNIFYPREAKYQWKVDNALQSGNSQESVTEQDSKDS--TYSLSSTLTLSKADYEHKVYACEVTHQGLSSPVTKSFNRGEC													