

1/40

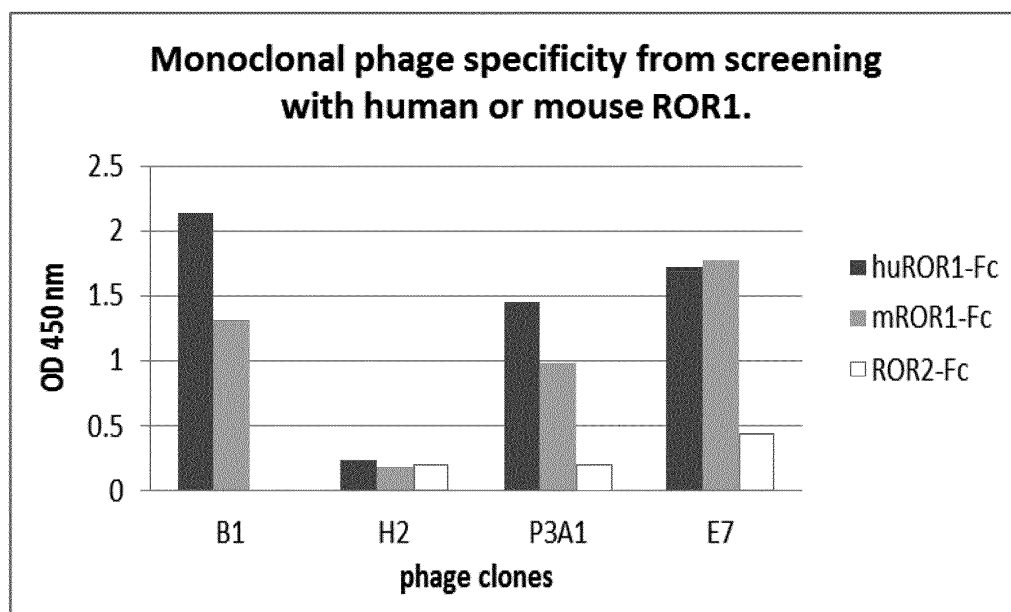


Fig. 1

	10	20	30	40	50	60	70	
E7 Protein	-	TRVDQTPRTATKETGESLTINC	VVTGAKYGLAATYWYRKNPGSSNQERISISGRYVESVNKR	TMSFSLRI				
CPF7 Protein	-	TRVDQTPRTATKETGESLTINC	VVTGAKYGLFATYWYRKNPGSSNQERISISGRYVESVNKR	TMSFSLRI				
P3A1 Protein	-	TRVDQTPRTATKETGESLTINC	VLDTSTYGLYSTSWFRKNPGTTDWERMSIGGRYVESVNKGAKS	FSLRI				
B1 Protein	-	ASVNQTPRTATKETGESLTINC	VVTGANYGLAATYWYRKNPGSSNQERISISGRYVESVNKR	TMSFSLRI				
	80	90	100	110				
E7 Protein	-	KDLTVADSATYYCKAY----	PWAMWG----	QWYDGAGTVLTVN	105	SEQ ID NO: 102		
CPF7 Protein	-	KDLTVADSATYYCKAVFMPQH	WHHPAA----	HWYDGAGTVLTVN	109	SEQ ID NO: 103		
P3A1 Protein	-	KDLTVADSATYYCKAR---	EARHPWLR---	QWYDGAGTVLTVN	107	SEQ ID NO: 47		
B1 Protein	-	KDLTVADSATYYCKAY----	PWGAGAPWLQWYDGAGTVLTVN	109	SEQ ID NO: 44			

	10	20	30	40	50	60	70	
E7 Protein	-	TRVDQTPRTATKETGESLTINC	VVTGAKYGLAATYWYRKNPGSSNQERISISGRYVESVNKR	TMSFSLRI				
CPF7 Protein	-	TRVDQTPRTATKETGESLTINC	VVTGAKYGLFATYWYRKNPGSSNQERISISGRYVESVNKR	TMSFSLRI				
P3A1 Protein	-	TRVDQTPRTATKETGESLTINC	VLDTSTYGLYSTSWFRKNPGTTDWERMSIGGRYVESVNKGAKS	FSLRI				
B1 Protein	-	ASVNQTPRTATKETGESLTINC	VVTGANYGLAATYWYRKNPGSSNQERISISGRYVESVNKR	TMSFSLRI				
	80	90	100	110	120	130		
E7 Protein	-	KDLTVADSATYYCKAY----	PWAMWG----	QWYDGAGTVLTVNQASGAHHHHHGA	EFEQKLISEEDL	130		
CPF7 Protein	-	KDLTVADSATYYCKAVFMPQH	WHHPAA----	HWYDGAGTVLTVNQASGAHHHHHGA	EFEQKLISEEDL	134		
P3A1 Protein	-	KDLTVADSATYYCKAR---	EARHPWLR---	QWYDGAGTVLTVNQASGAHHHHHGA	EFEQKLISEEDL	132		
B1 Protein	-	KDLTVADSATYYCKAY----	PWGAGAPWLQWYDGAGTVLTVNQASGAHHHHHGA	EFEQKLISEEDL	134			

SEQ ID NO: 104
 SEQ ID NO: 105
 SEQ ID NO: 106
 SEQ ID NO: 107

Fig. 2

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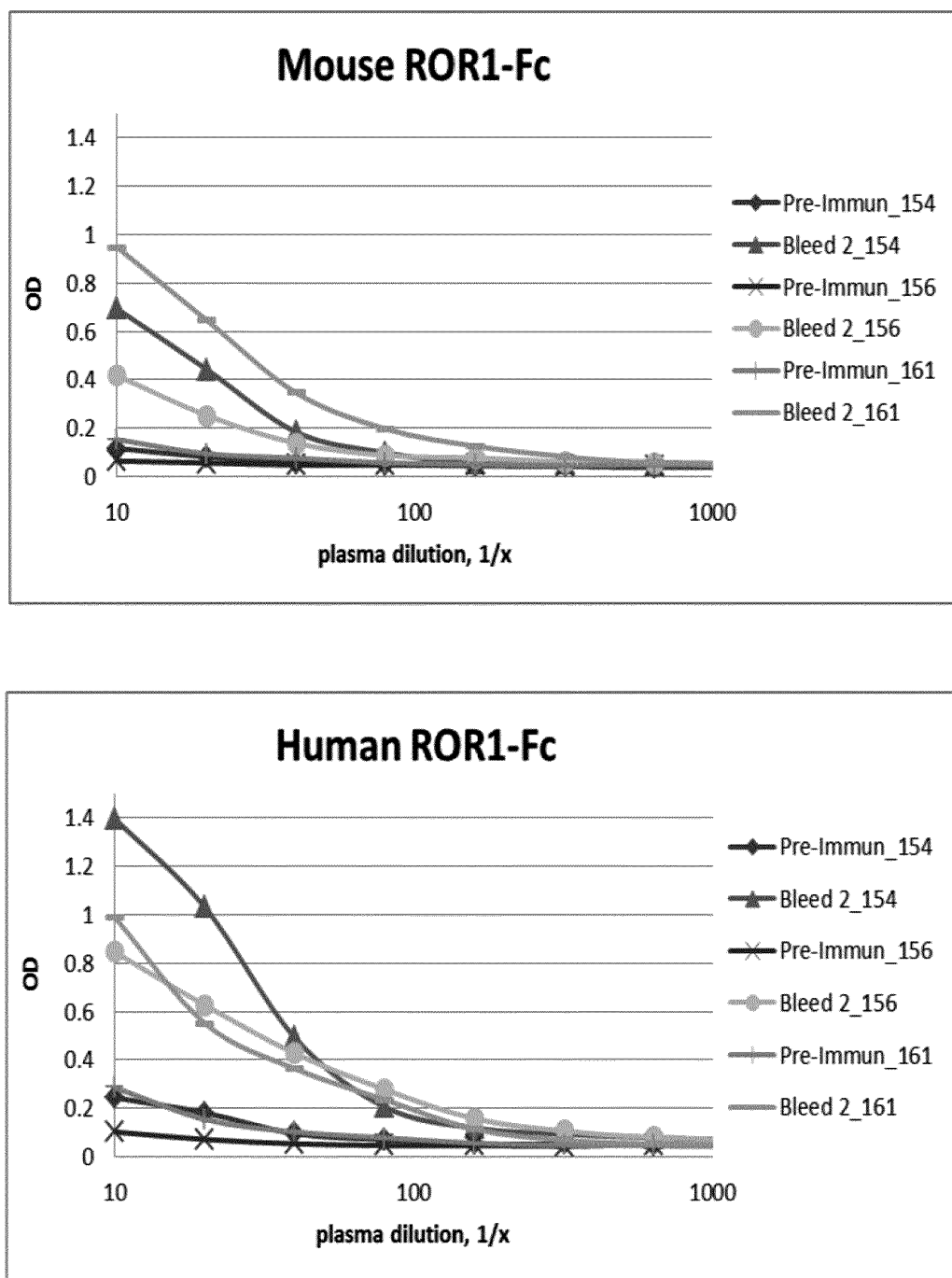


Fig. 3

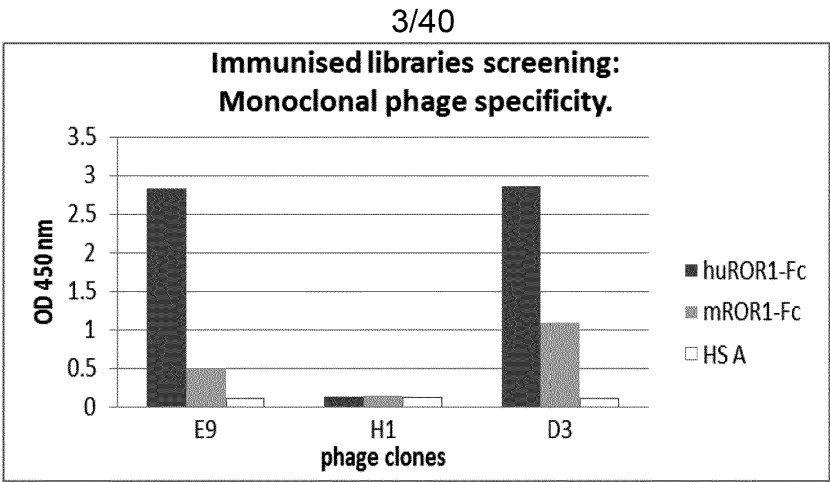


Fig. 4

D3 protein - ASVNQTPRTATKETGESLTINCVLTDTSYGLYSTSWFRKNPGTTDWERMSIGGRYVESVNKRAKSFSLRI
E9 protein - AKVDQTPRTATKETGESLTINCVLTDTSYGLYSTSWFRKNPGTTDWERMSIGGRYVESVNKRAKSFSLRI

D3 protein - KDLTVADSATYYCKAQSGMAISTGSGHGYNWYDGAGTVLTVN 112 SEQ ID NO: 39
E9 protein - KDLTVADSATYYCKAQSGMAIDIGSGHGYNWYDGAGTVLTVN 112 SEQ ID NO: 40

D3 protein - ASVNQTPRTATKETGESLTINCVLTDTSYGLYSTSWFRKNPGTTDWERMSIGGRYVESVNKRAKSFSLRI
E9 protein - AKVDQTPRTATKETGESLTINCVLTDTSYGLYSTSWFRKNPGTTDWERMSIGGRYVESVNKRAKSFSLRI

D3 protein - KDLTVADSATYYCKAQSGMAISTGSGHGYNWYDGAGTVLTVNQASGAHHHHHHGAEFEQKLISEEDL 137
E9 protein - KDLTVADSATYYCKAQSGMAIDIGSGHGYNWYDGAGTVLTVNQASGAHHHHHHGAEFEQKLISEEDL 137

SEQ ID NO: 108
SEQ ID NO: 109

Fig. 5

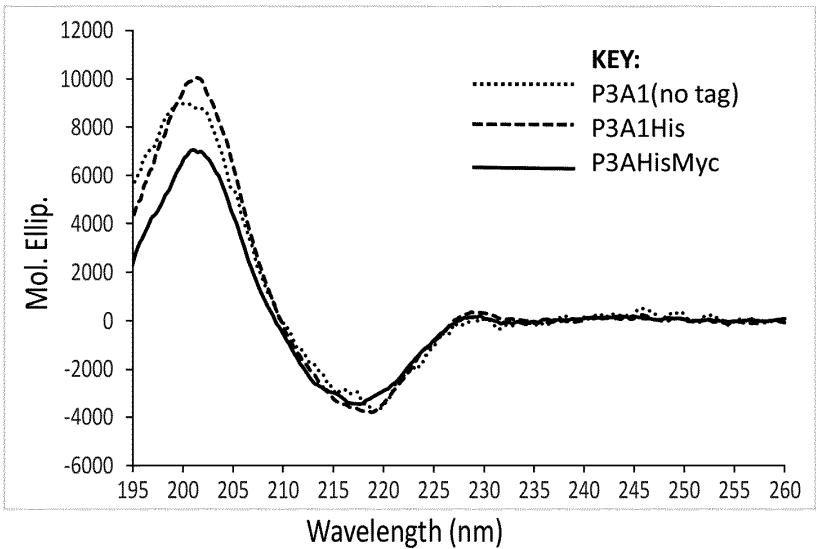


Fig. 6

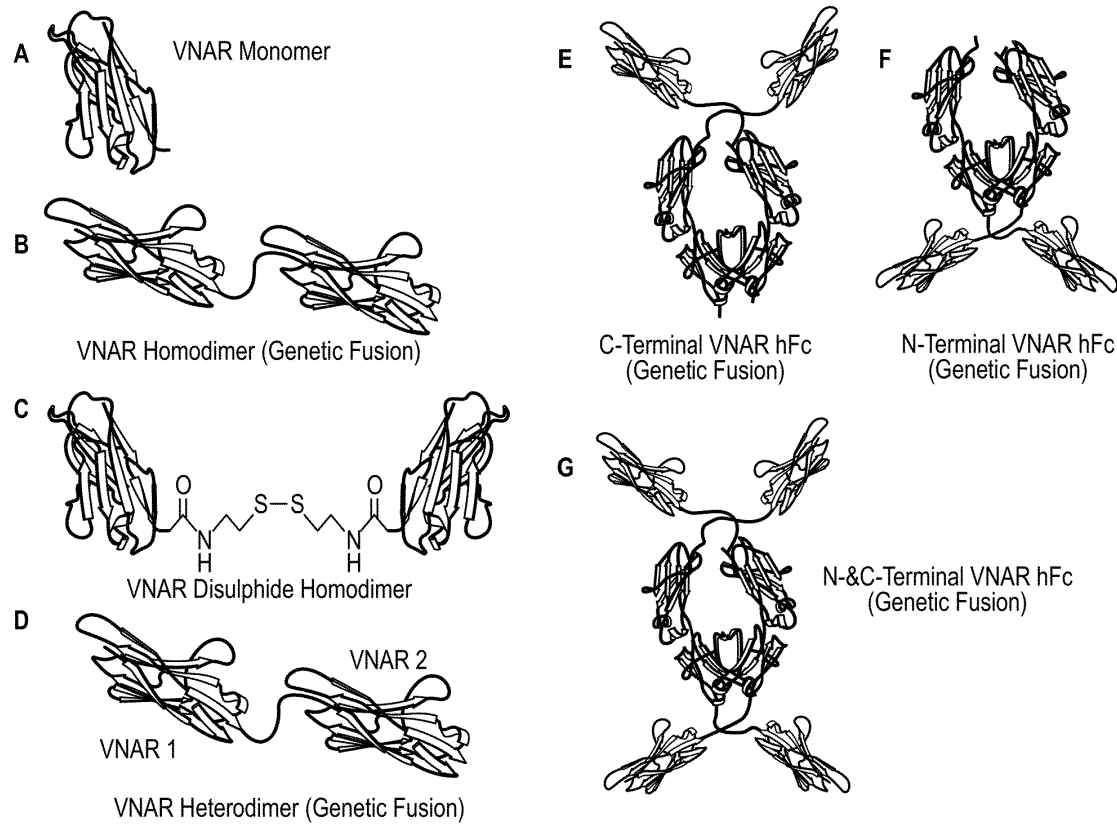


Fig. 7

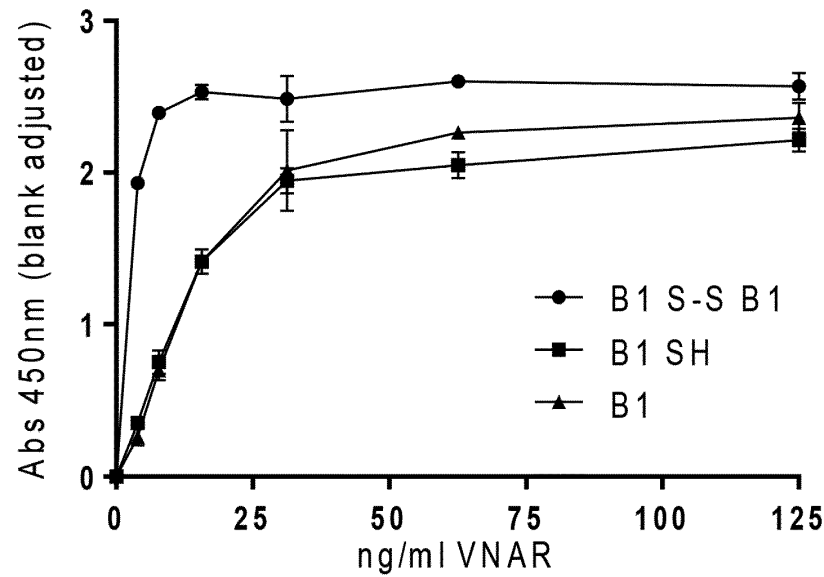


Fig. 8

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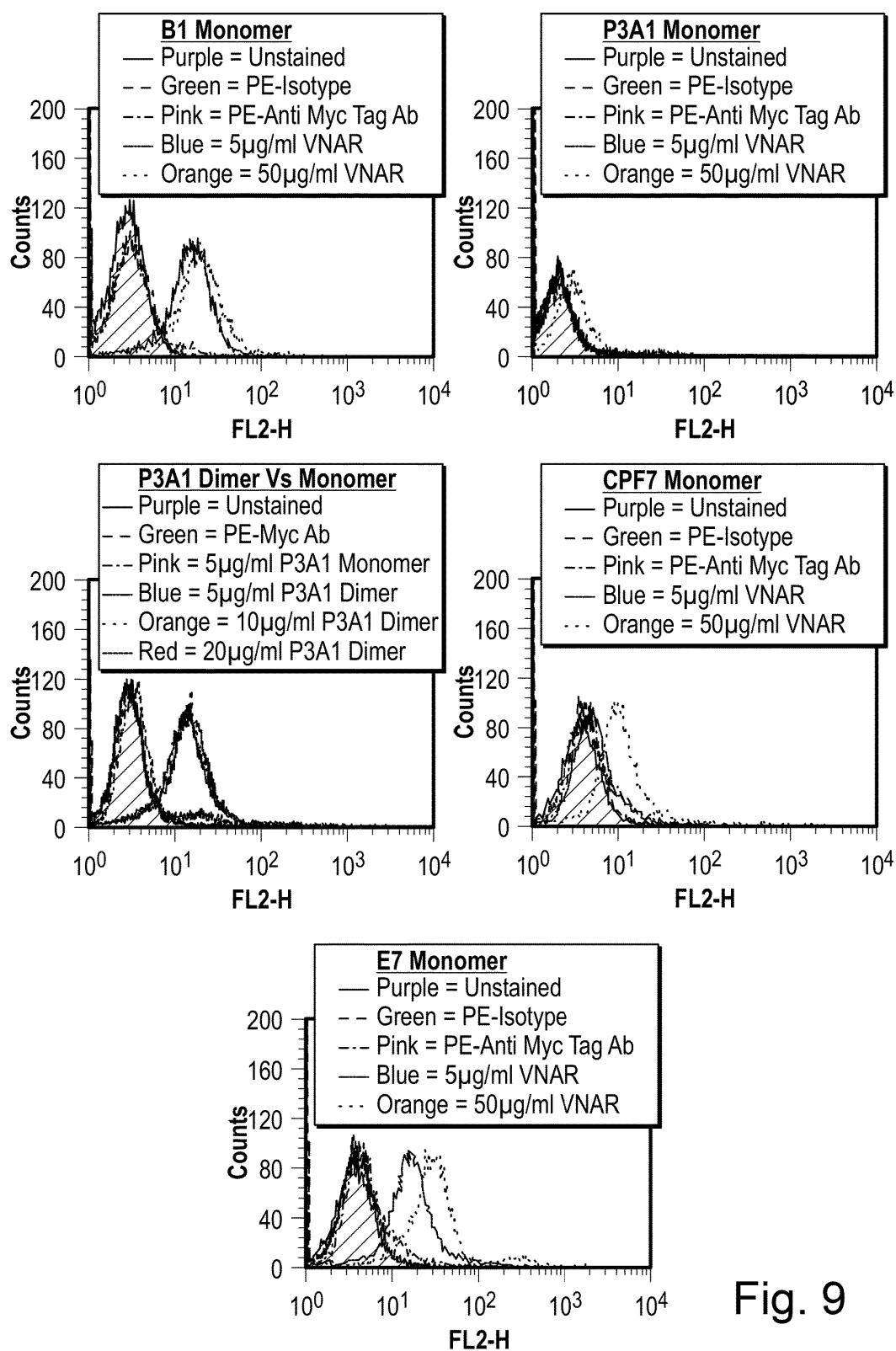


Fig. 9

Linker mouse IgG2a sequence for VNAR fusions

Linker human IgG1 sequences for VNAR fusions

DKTHTCPPCPAPELLGGPCVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKF
NWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
LPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWES
NGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNNHY
TQKLSLSLSPGKGGGGSGGGGSGGGGSGGGGSGGGGS (SEQ ID NO 114)

Fig. 10

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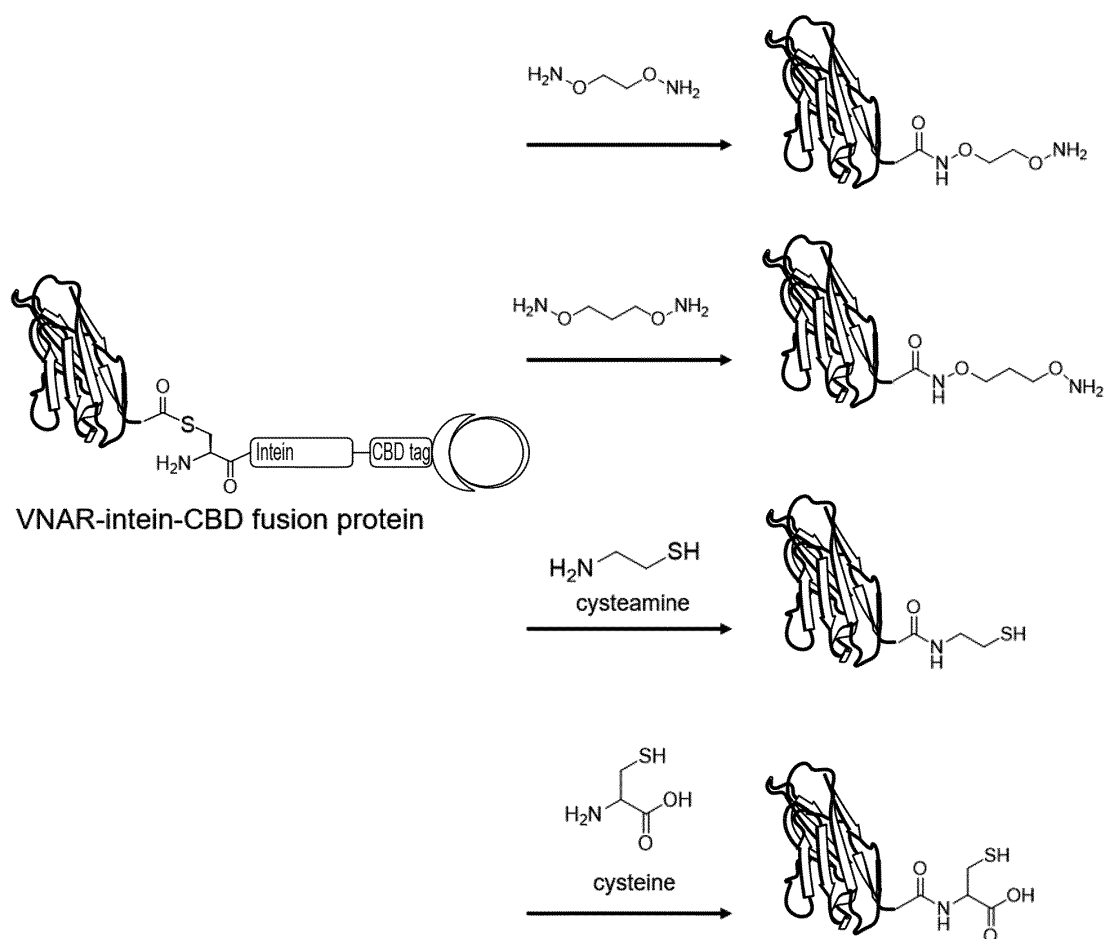


Fig. 11

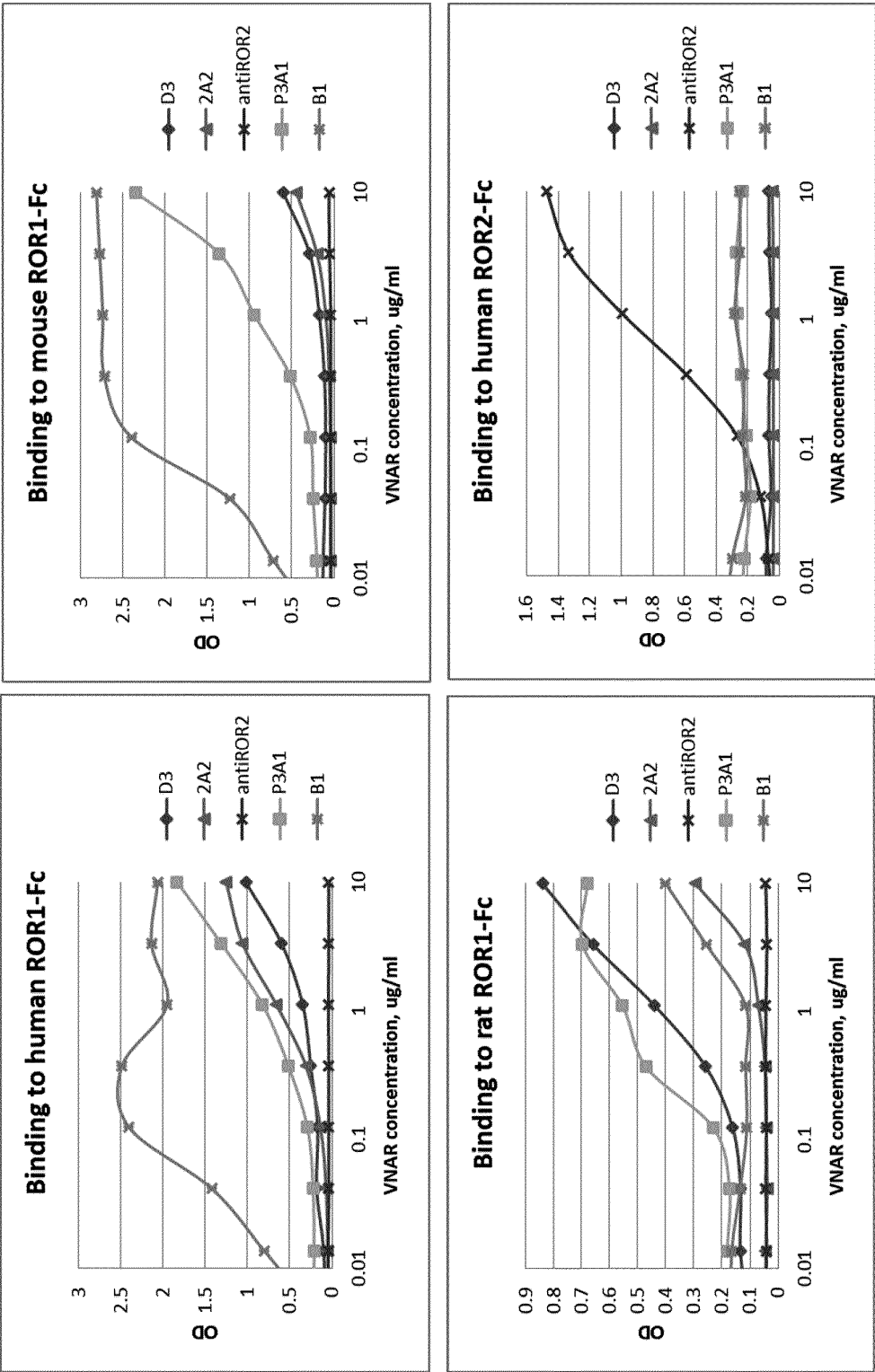
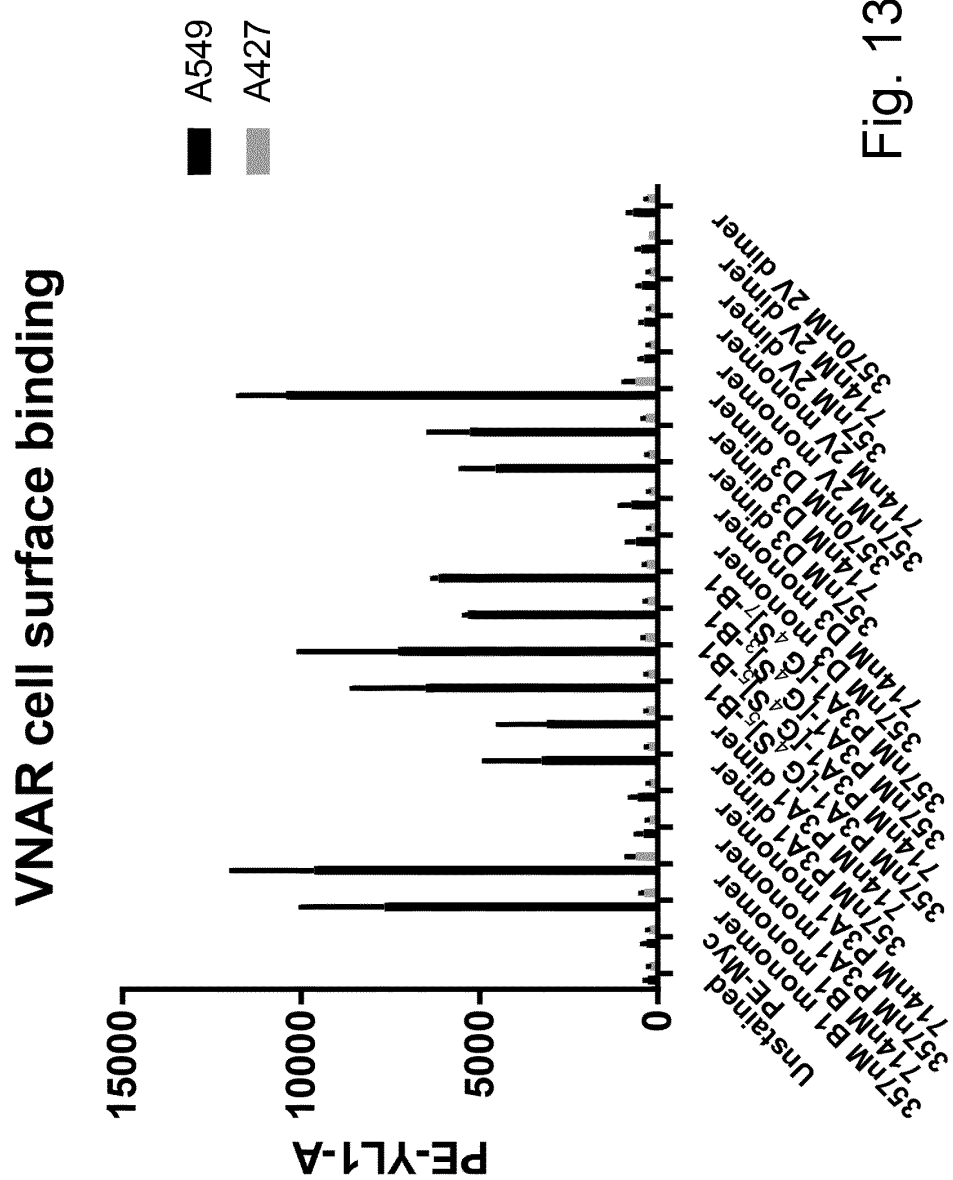


Fig. 12



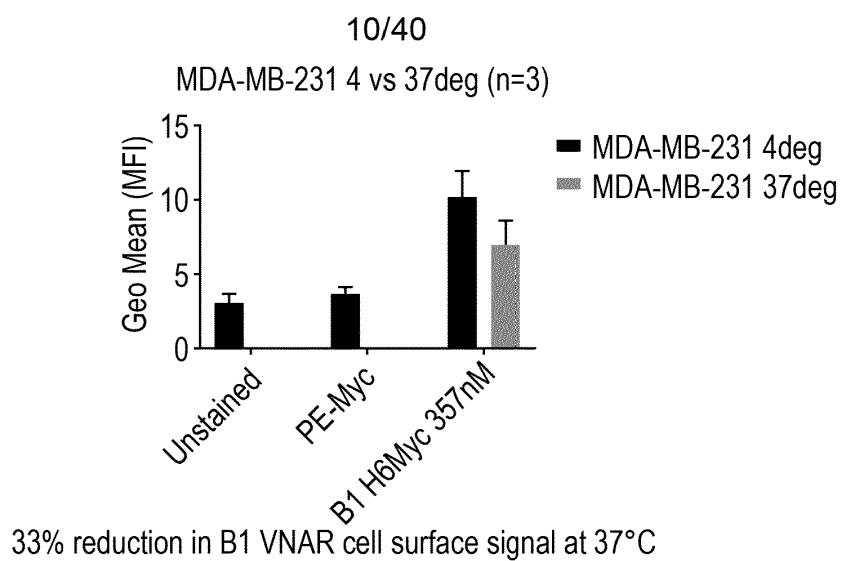
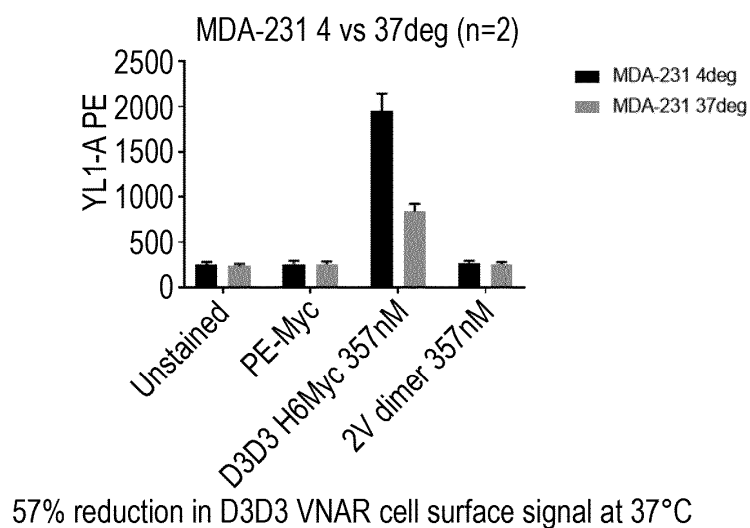
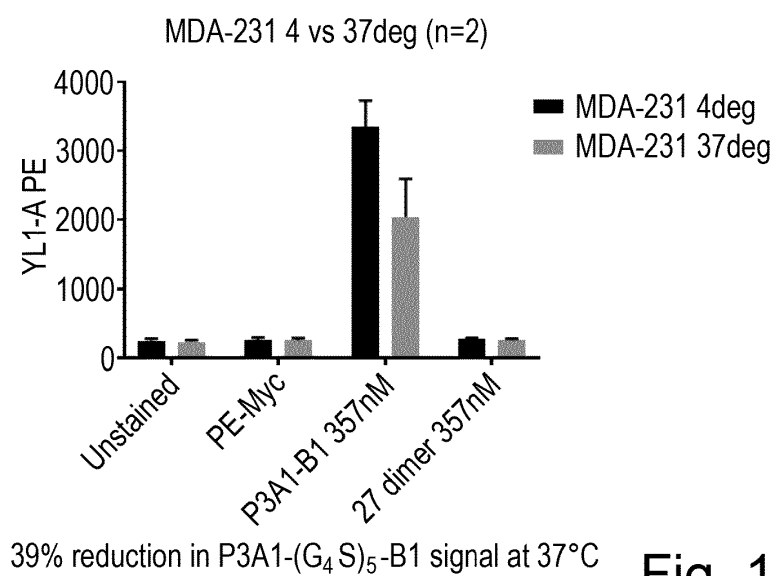


Fig. 14

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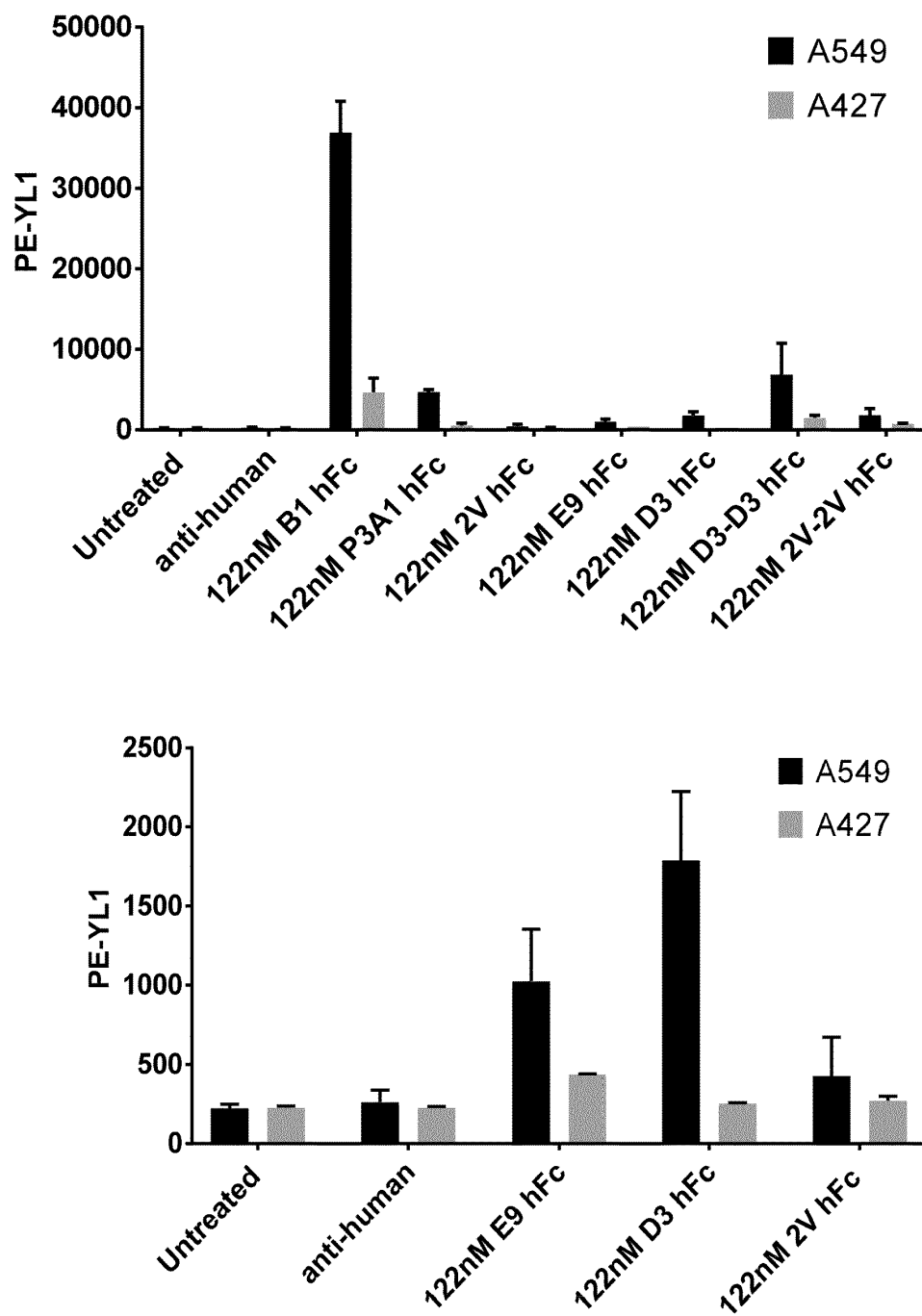
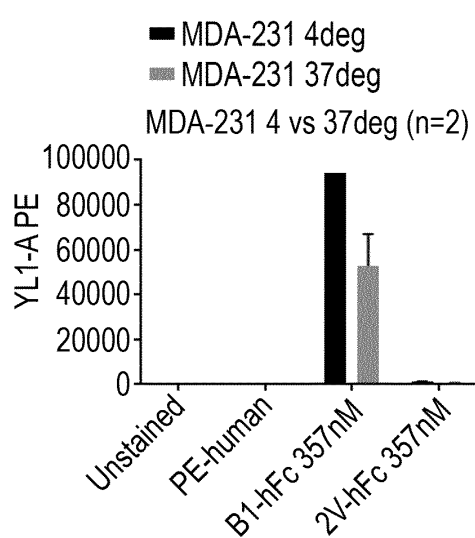
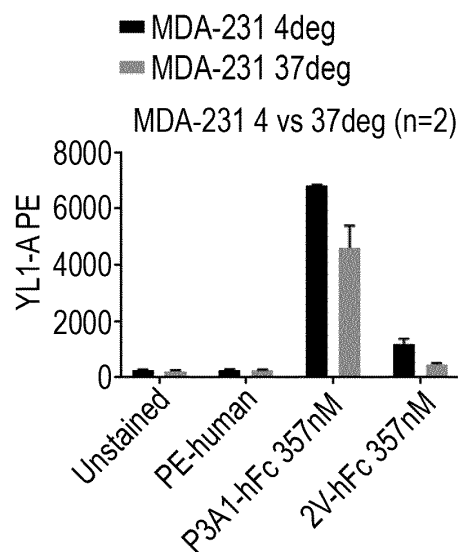


Fig. 15

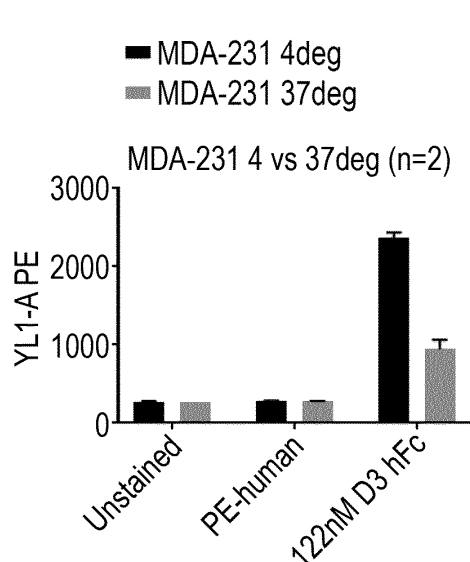
12/40



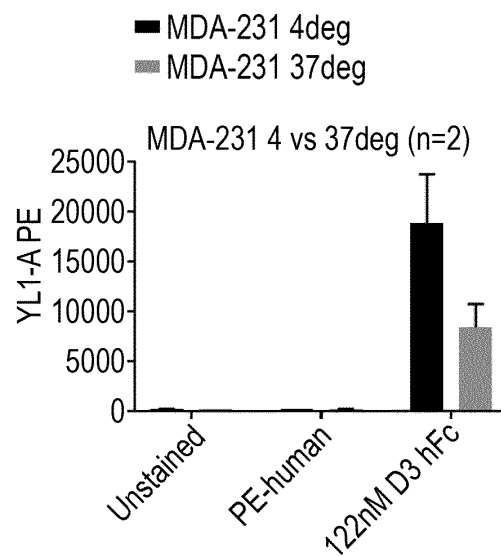
B1 hFc: 44% reduction in signal at 37°C



P3A1 hFc: 33% reduction in signal at 37°C



D3 hFc: 60% reduction in signal at 37°C



D3D3 hFc: 55% reduction in signal at 37°C

Fig. 16

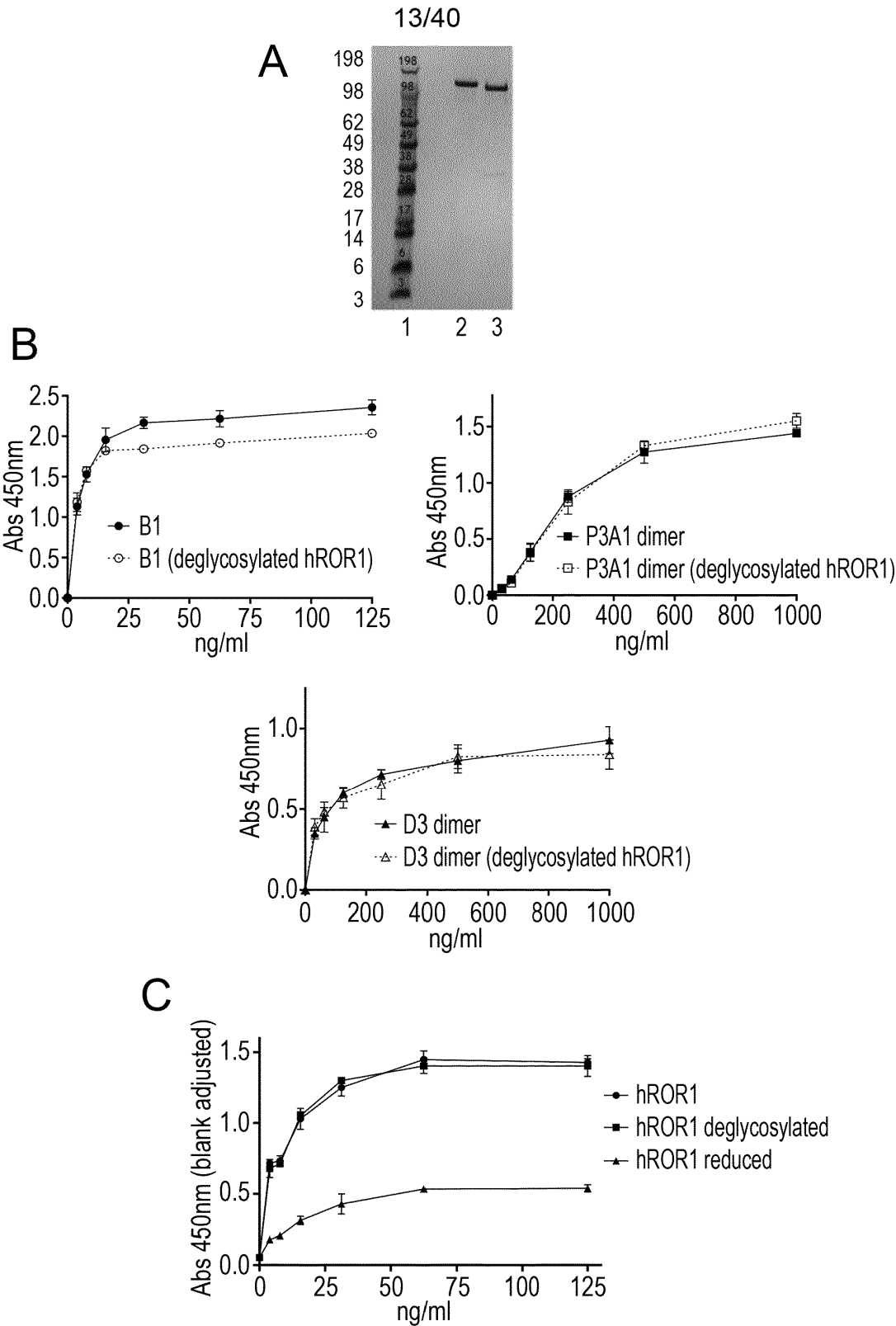


Fig. 17

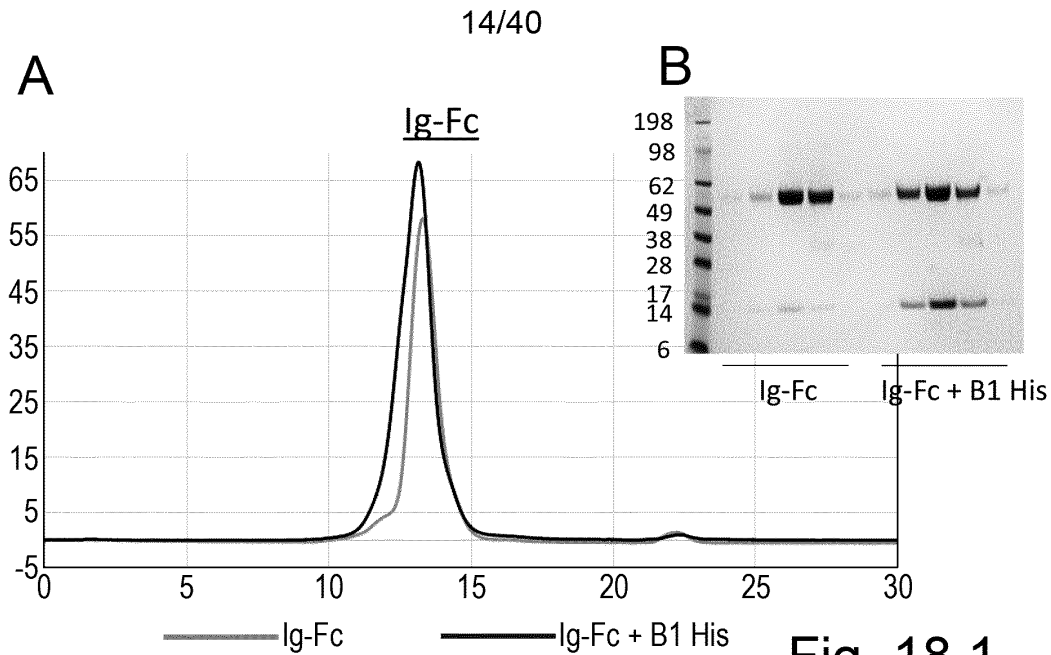
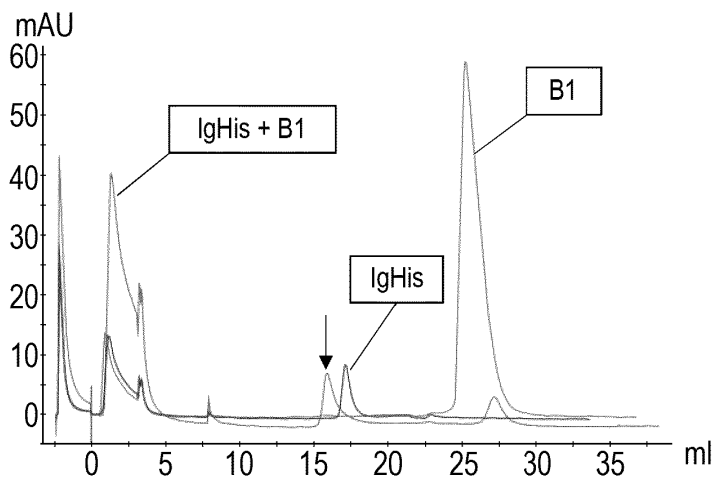


Fig. 18.2

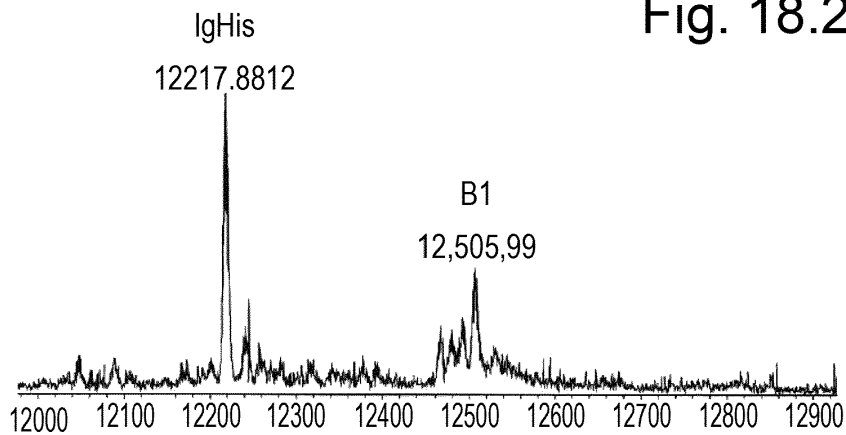


Fig. 18.3

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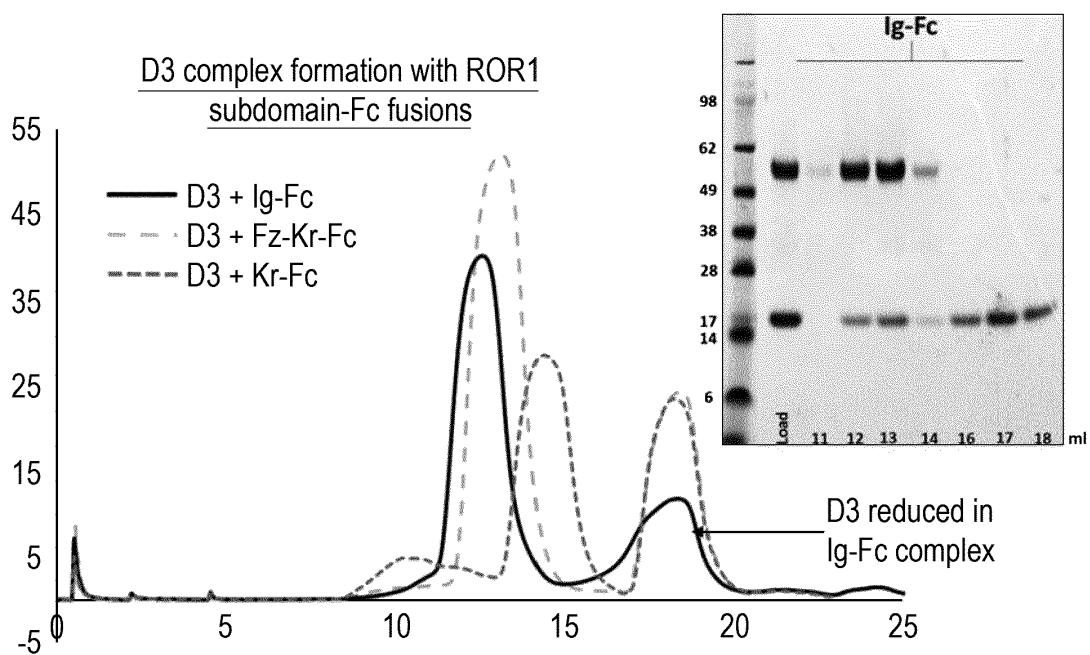
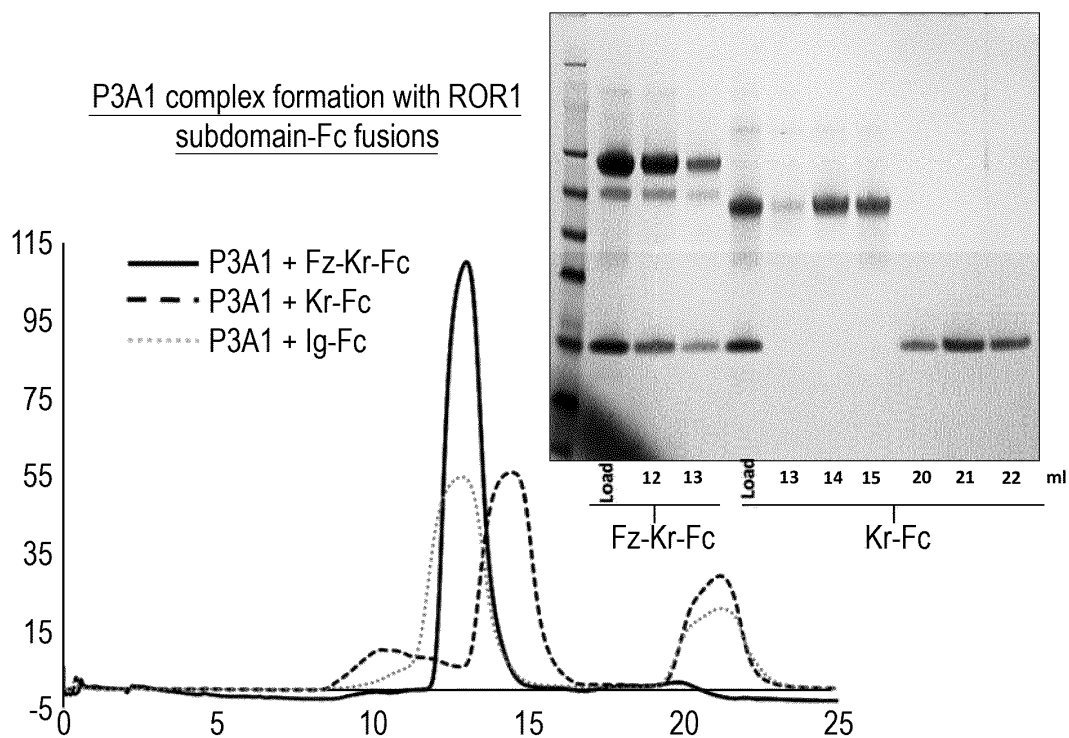
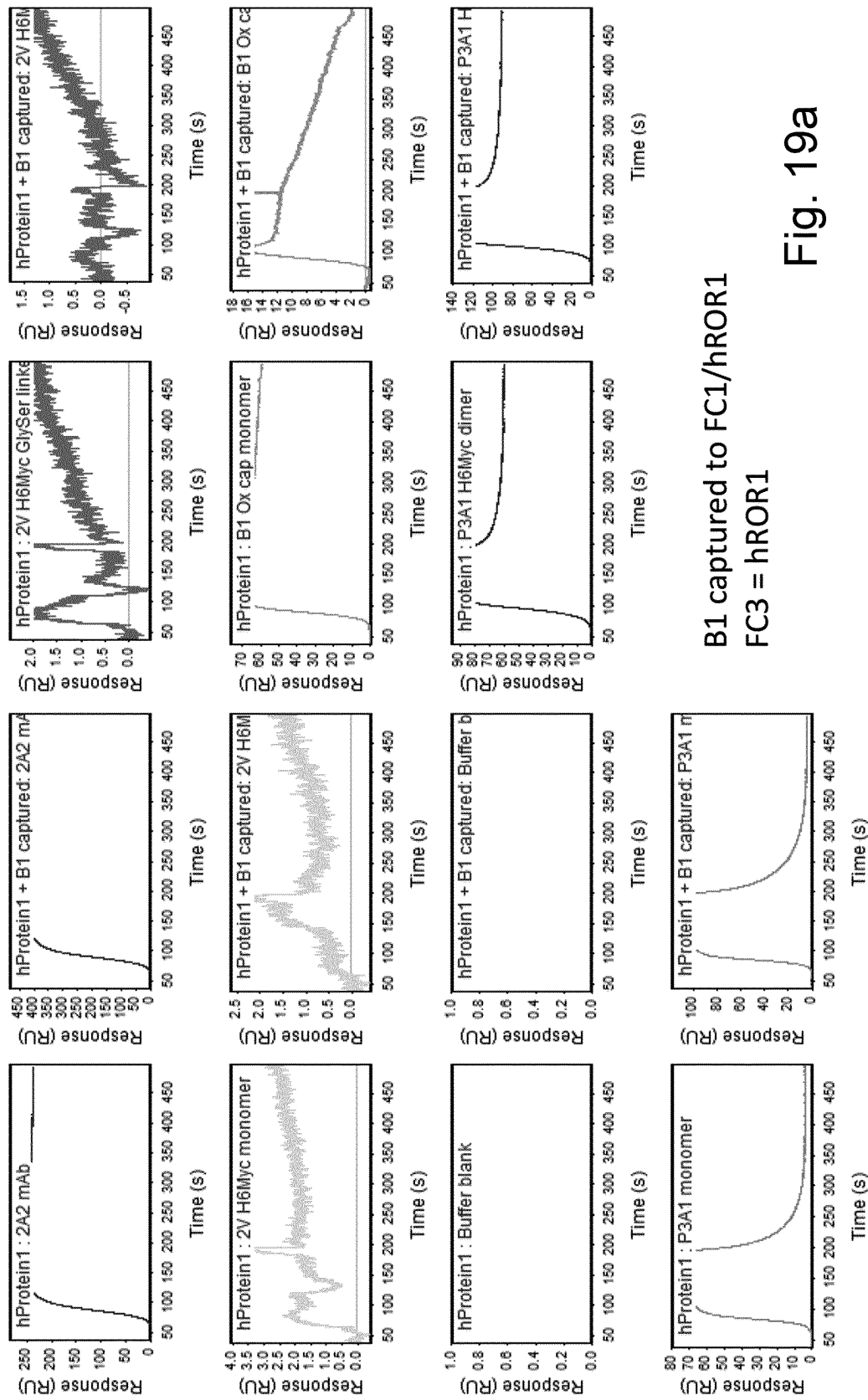


Fig. 18.4



B1 captured to FC1/hROR1
FC3 = hROR1

Fig. 19a

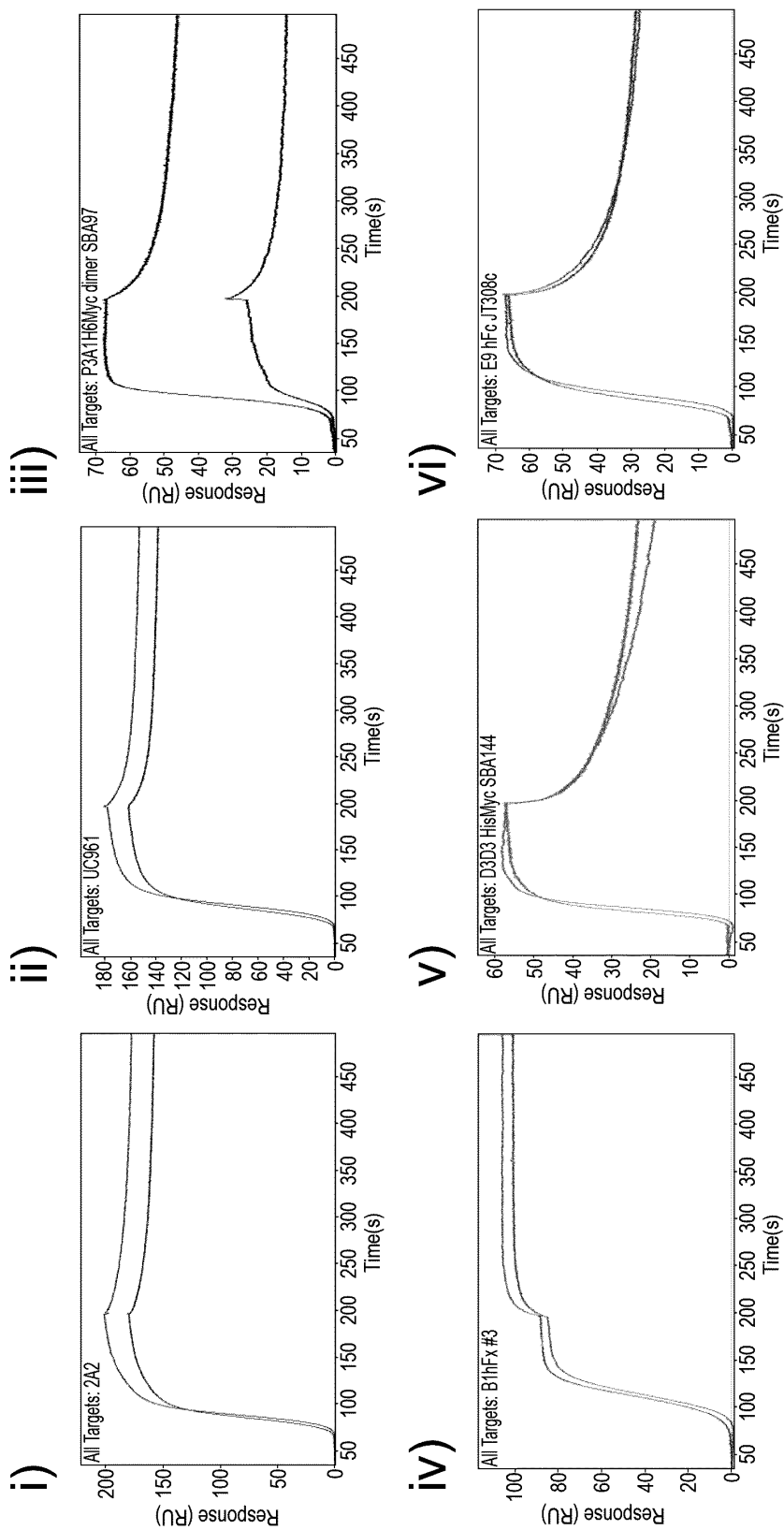


Fig. 19b

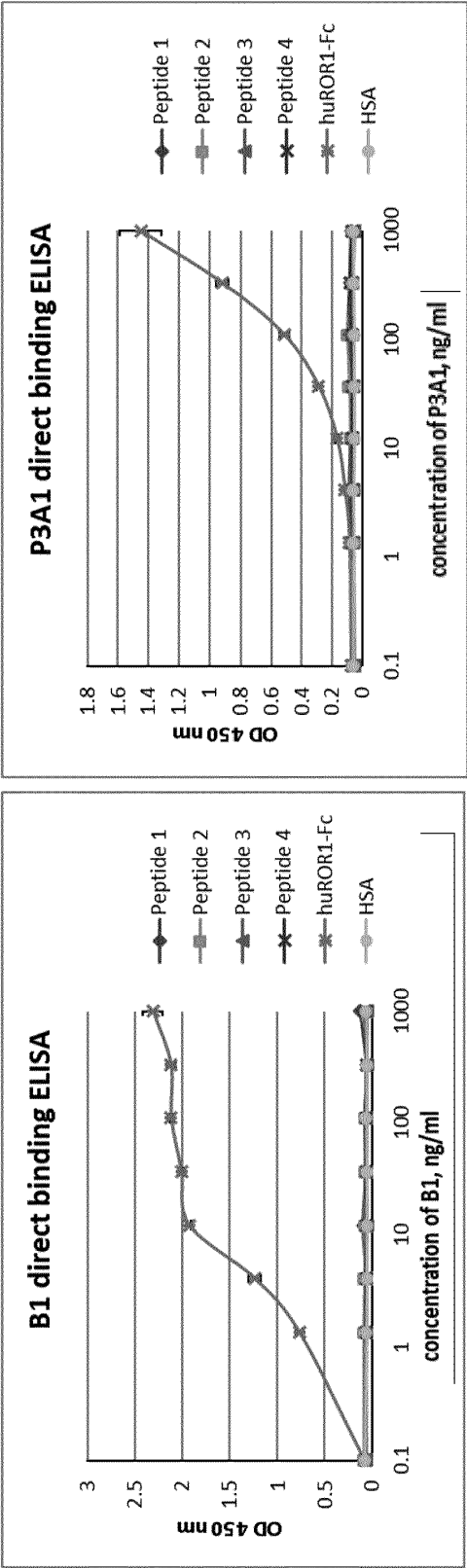


Fig. 20

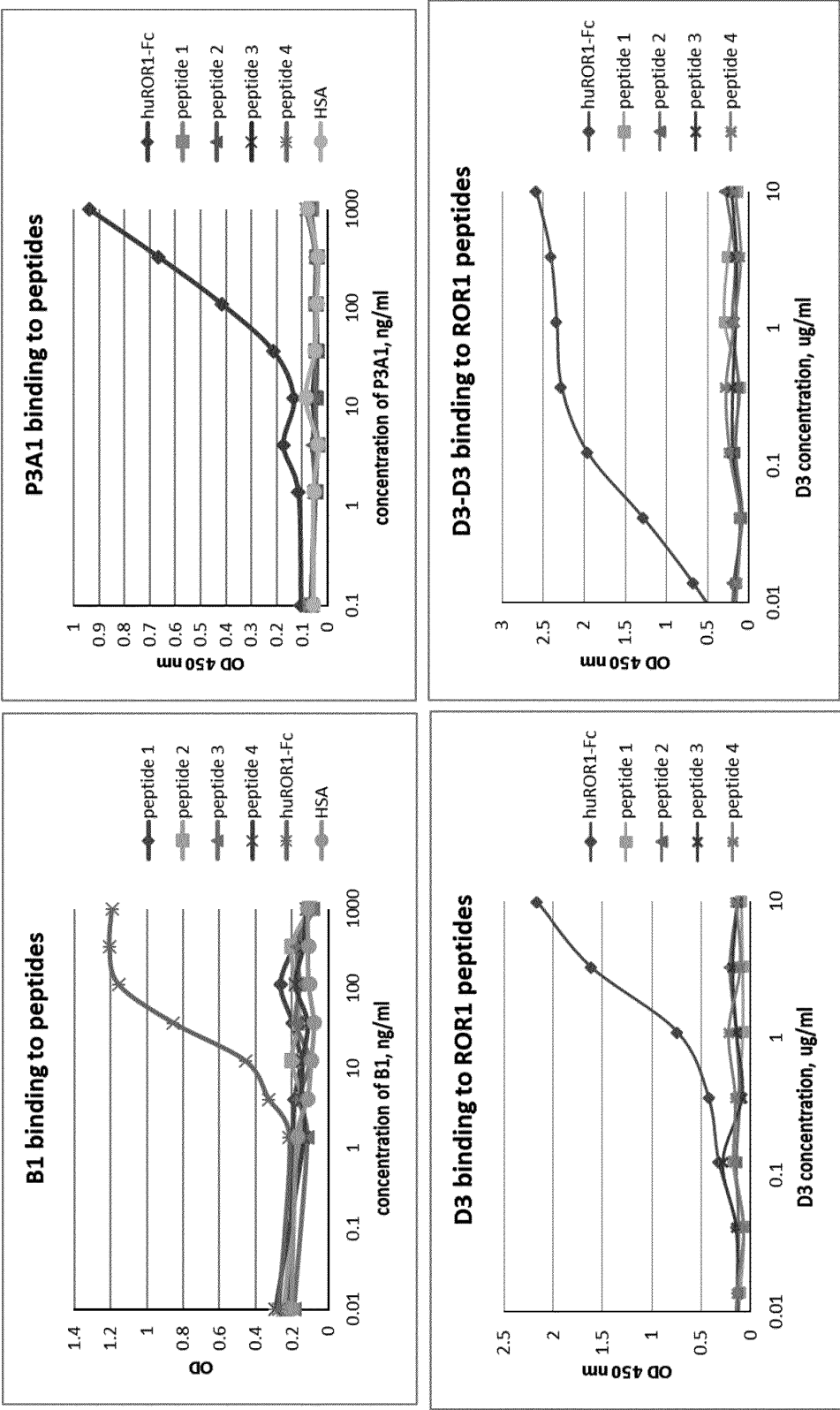


Fig. 21

Binding of anti ROR1 VNAR to peptide 5

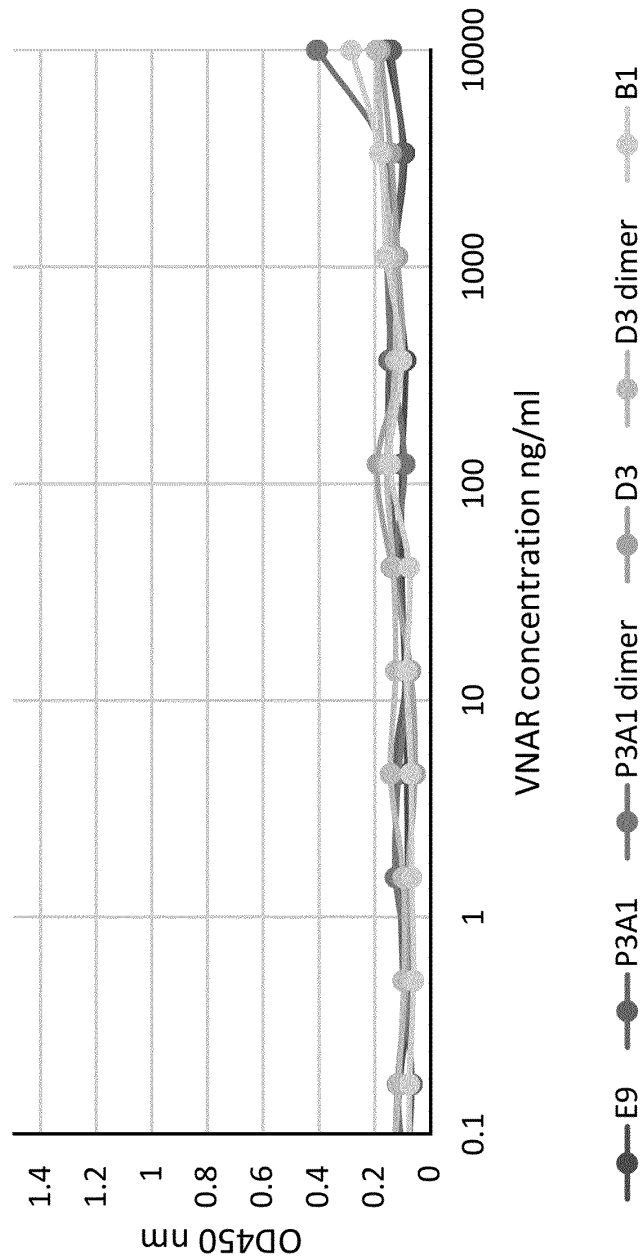


Fig. 21 (continued)

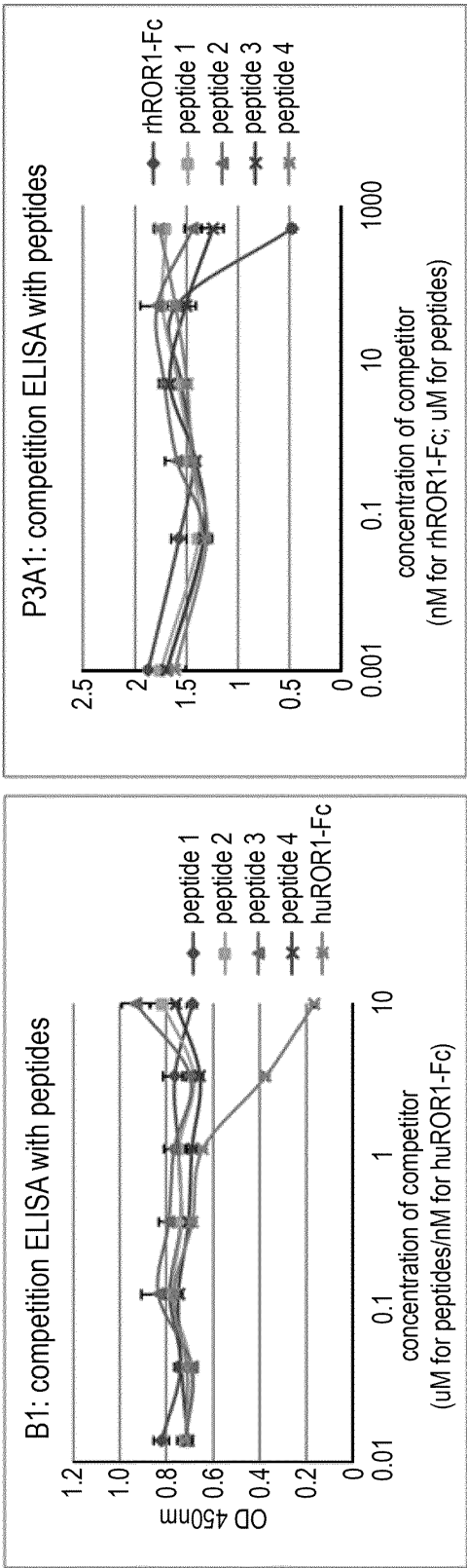


Fig. 22

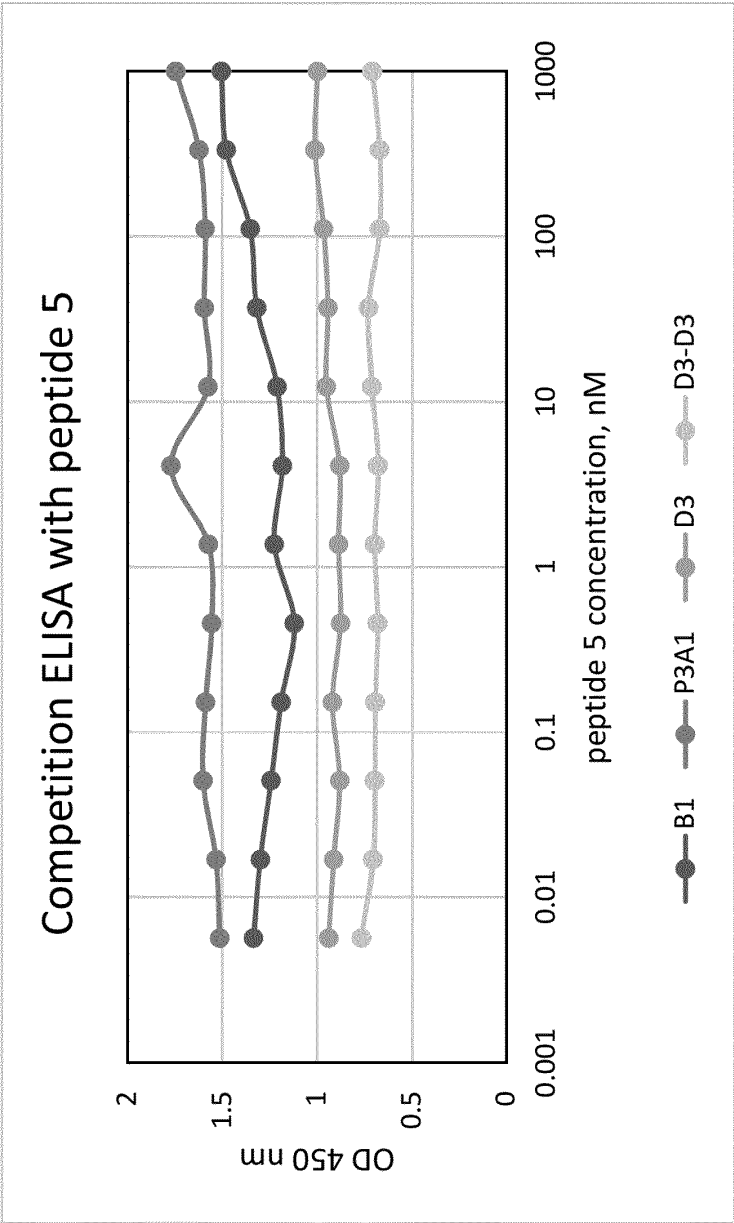


Fig. 22 (continued)

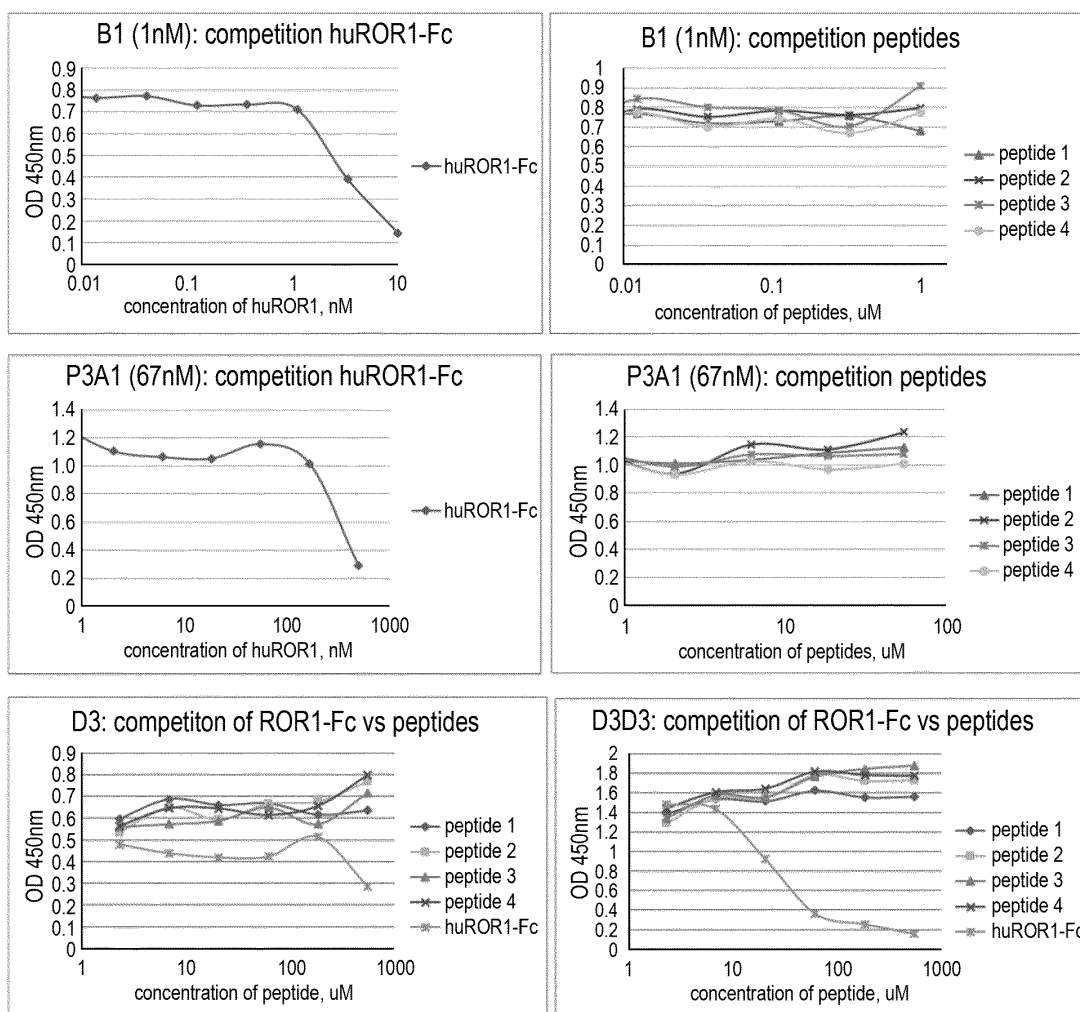


Fig. 23

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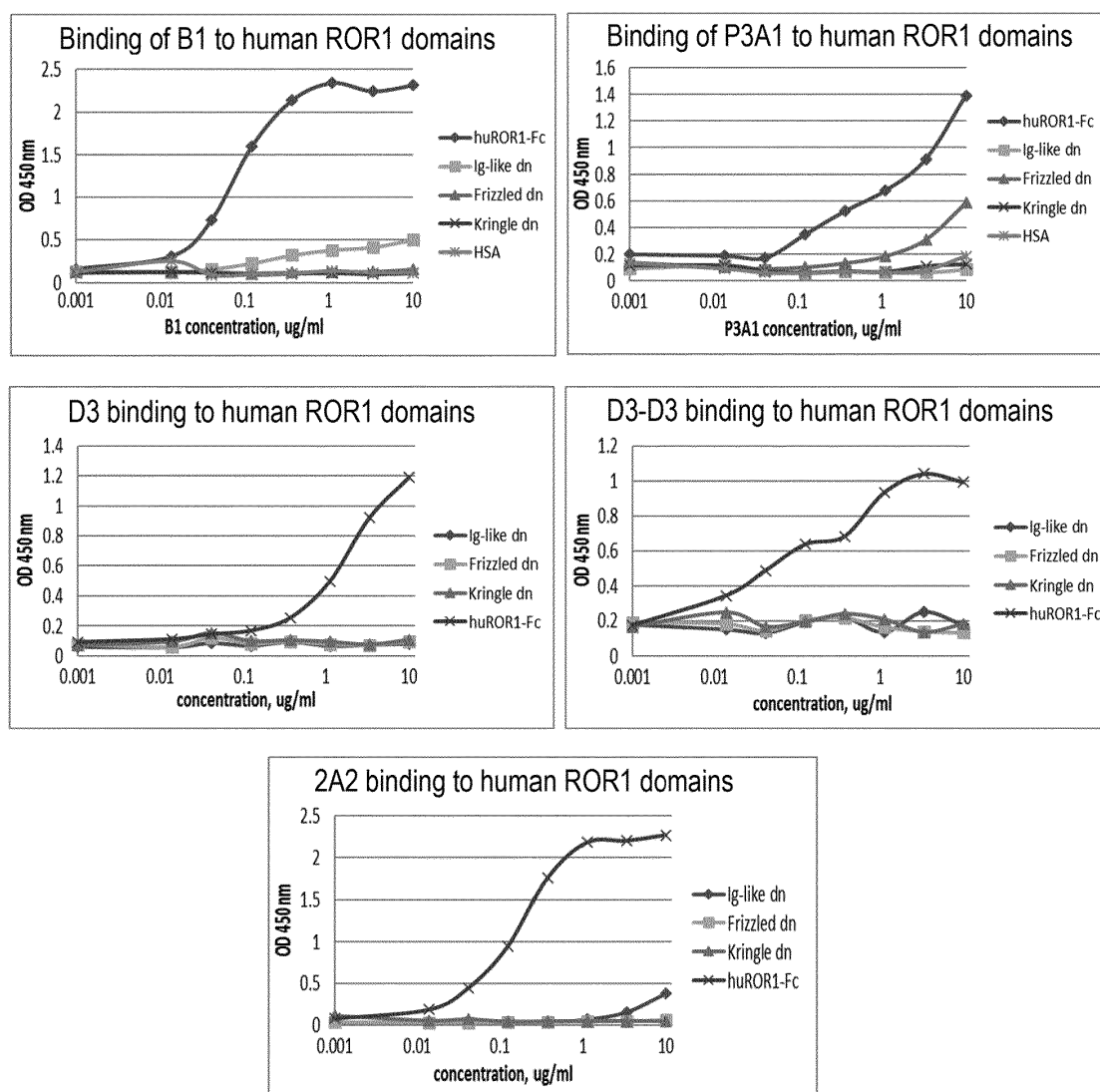


Fig. 24

Fig. 25

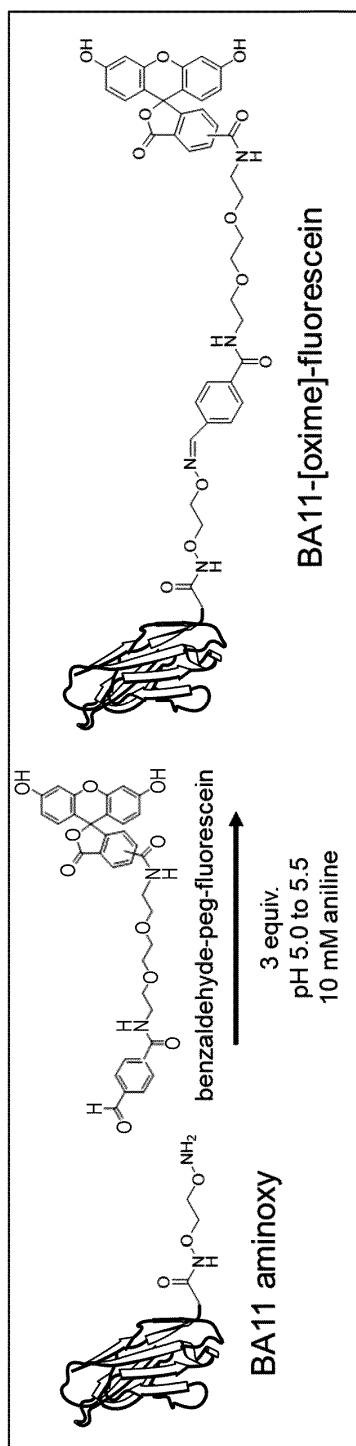


Fig. 26

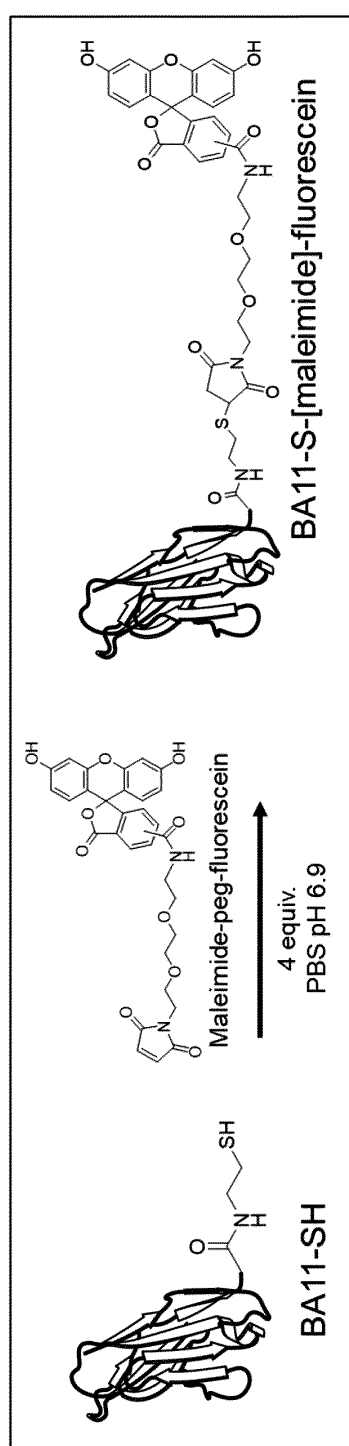
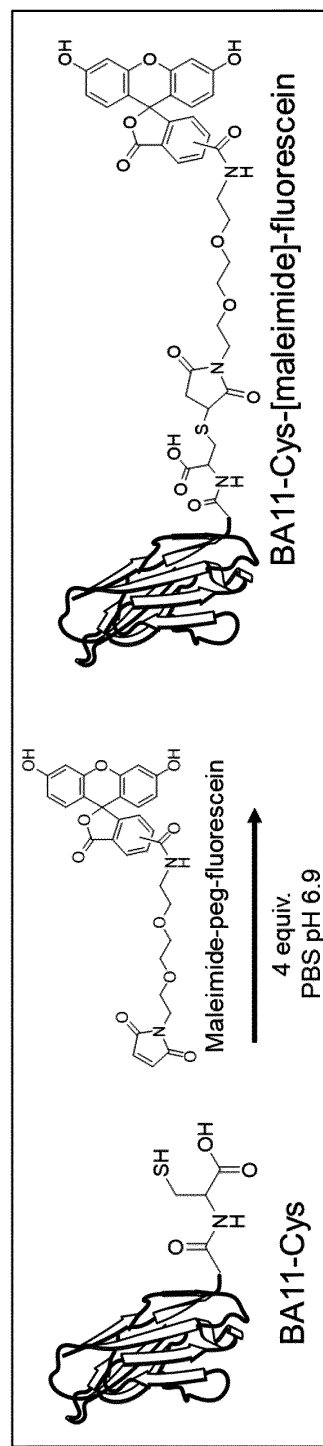


Fig. 27



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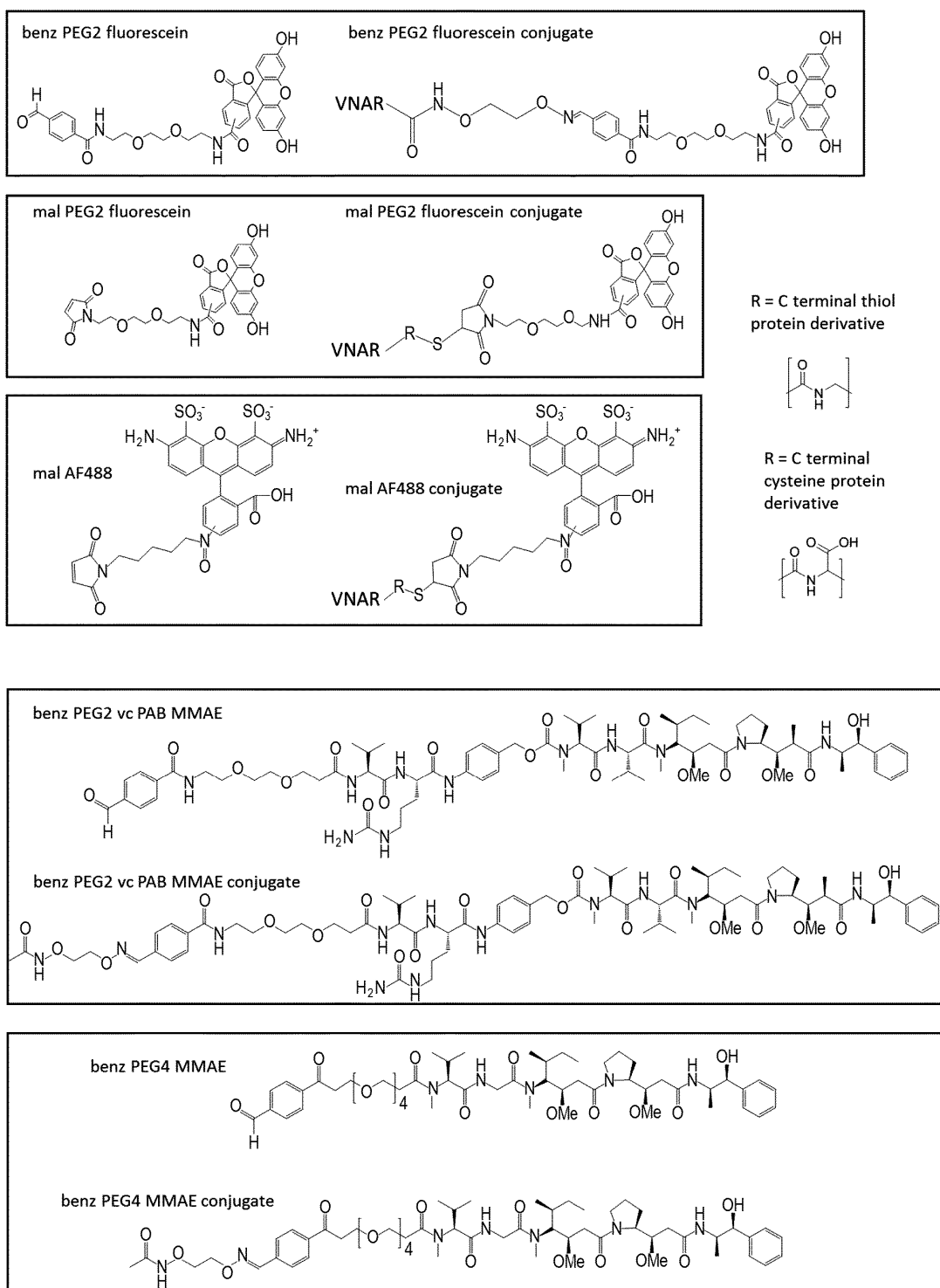


Fig. 28

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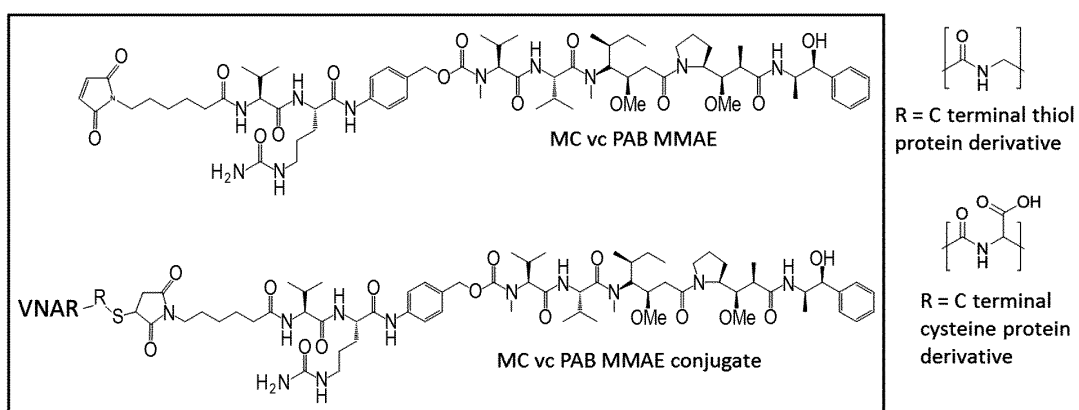


Fig. 28 (continued)

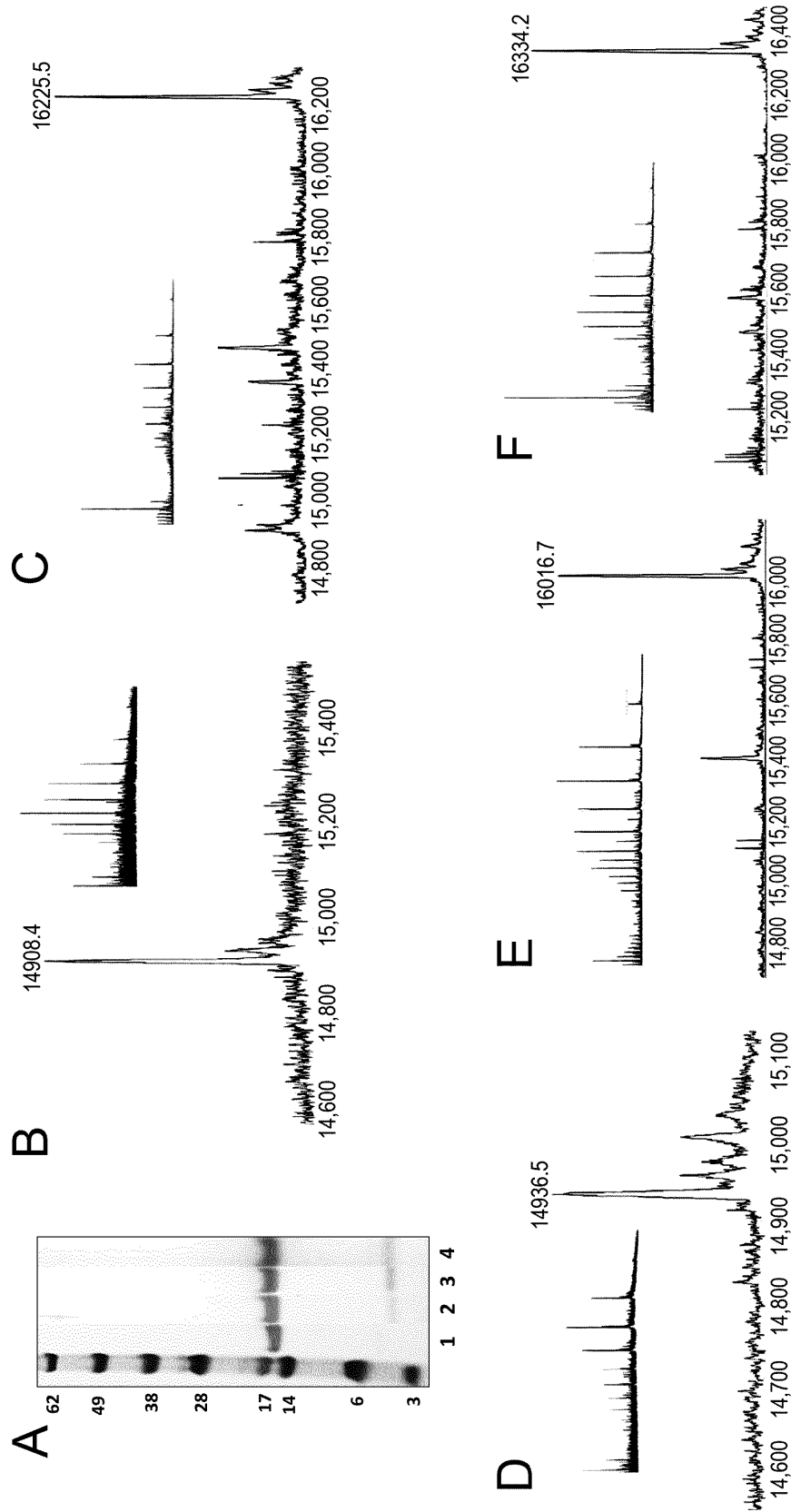


Fig. 29

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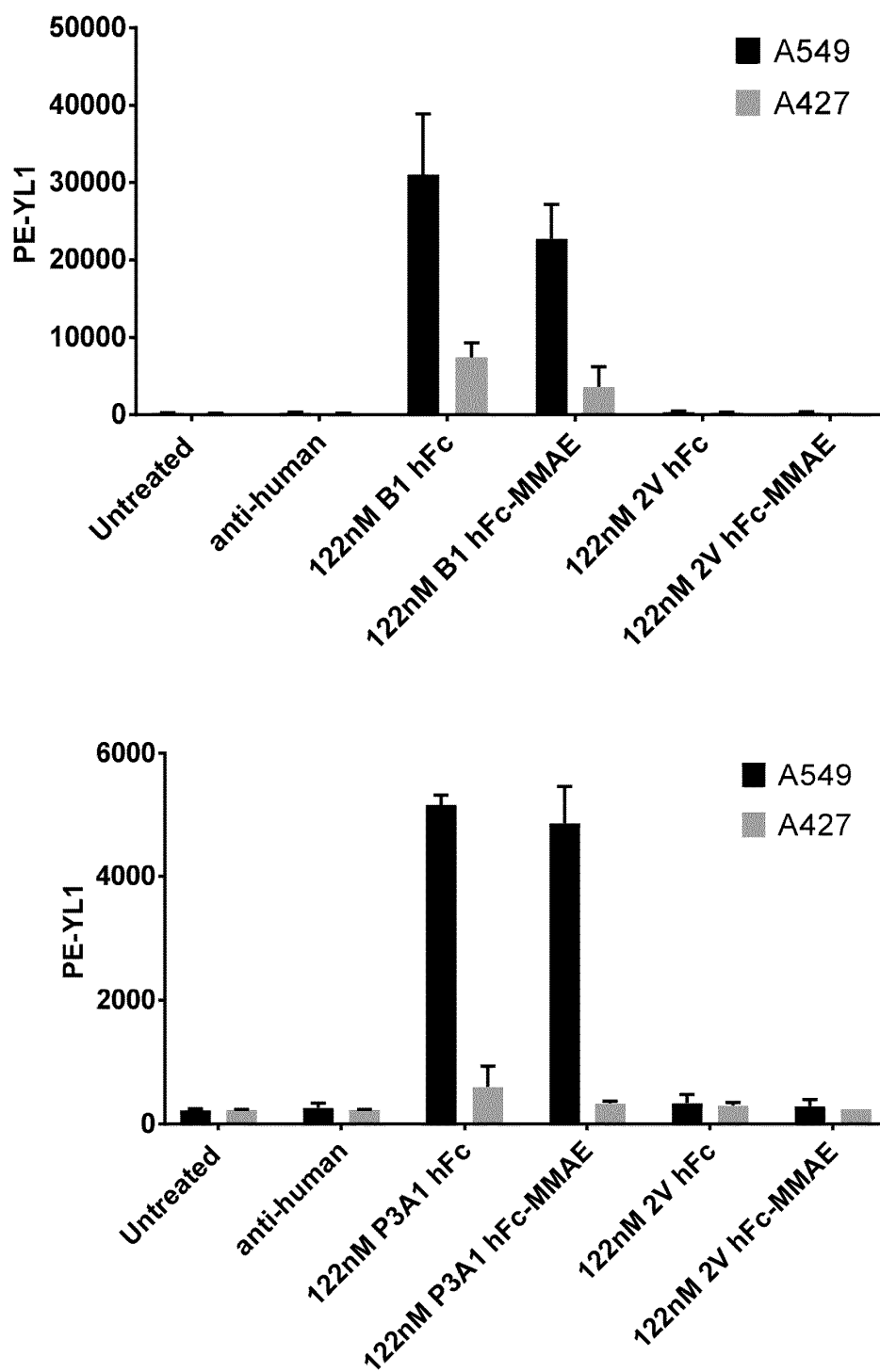
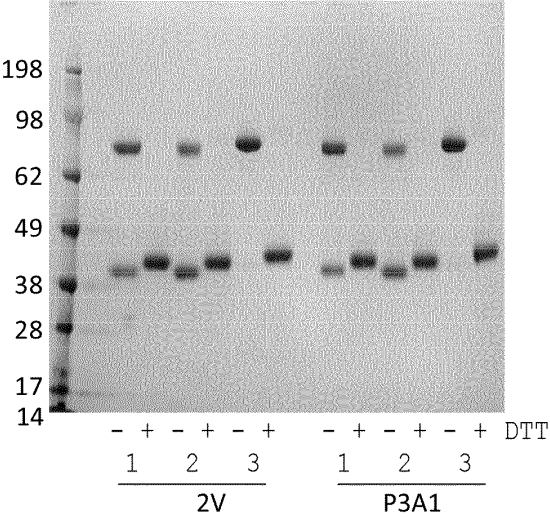


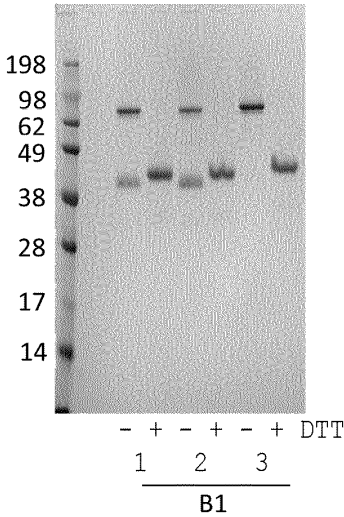
Fig. 30

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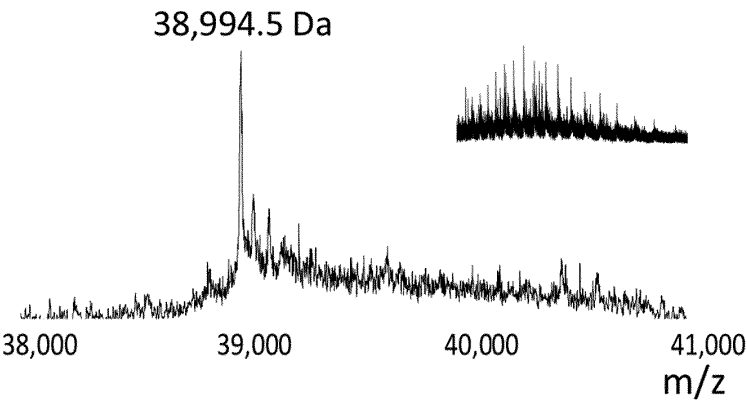
A



B



C



D

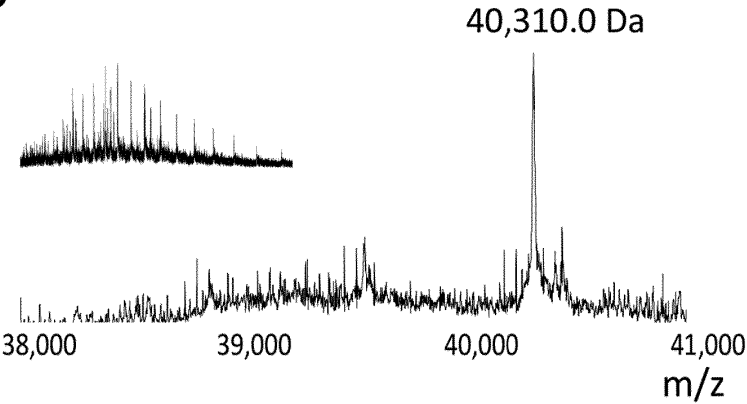


Fig. 31

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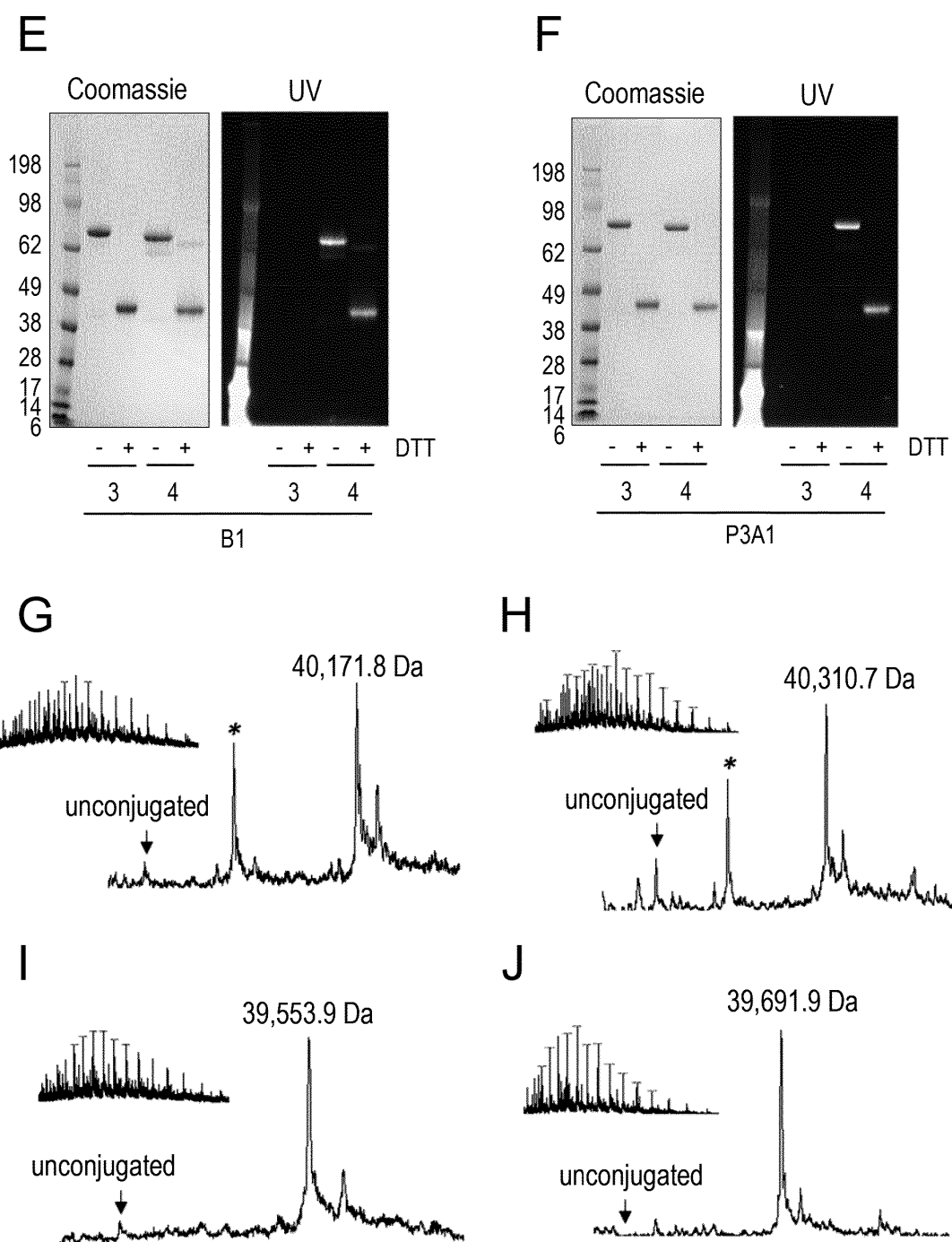
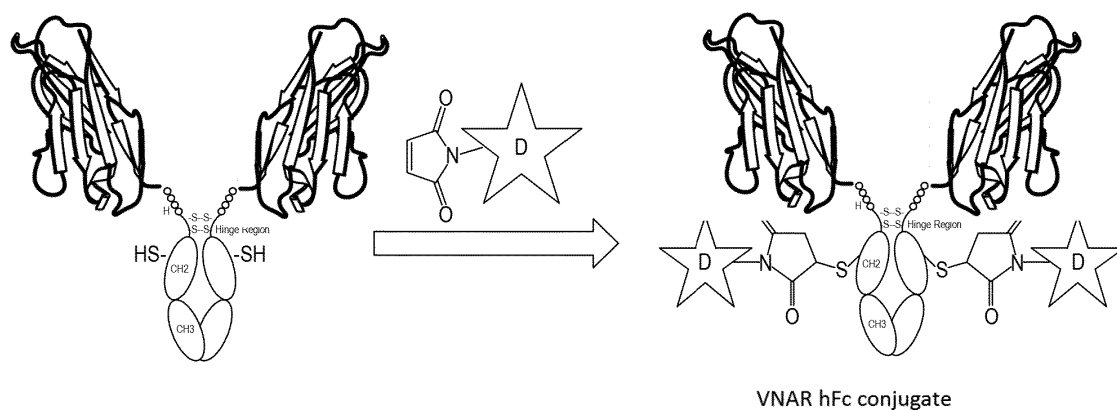


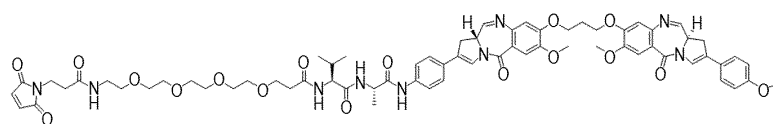
Fig. 31 (continued)

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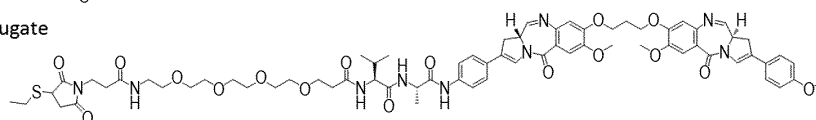


Examples of drug labels (D) and corresponding conjugate:

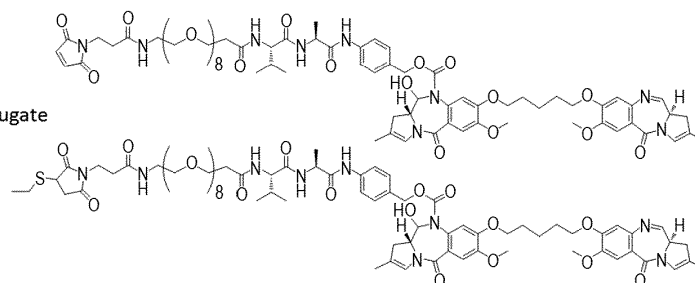
MA PEG4 va PBD



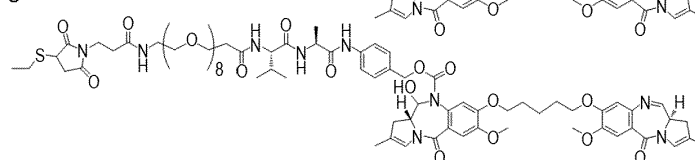
MA PEG4 va PBD conjugate



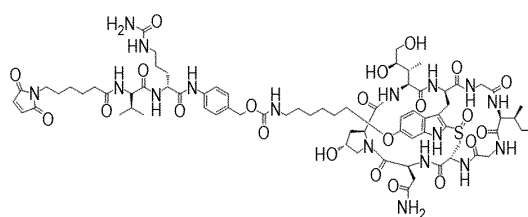
MA PEG8 va PAB SG3199



MA PEG8 va PAB SG3199 conjugate



MC vc PAB NHC₆ α-amanitin



MC vc PAB NHC₆ α-amanitin conjugate

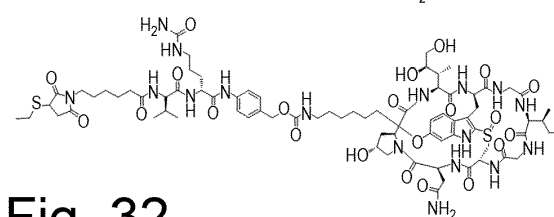


Fig. 32

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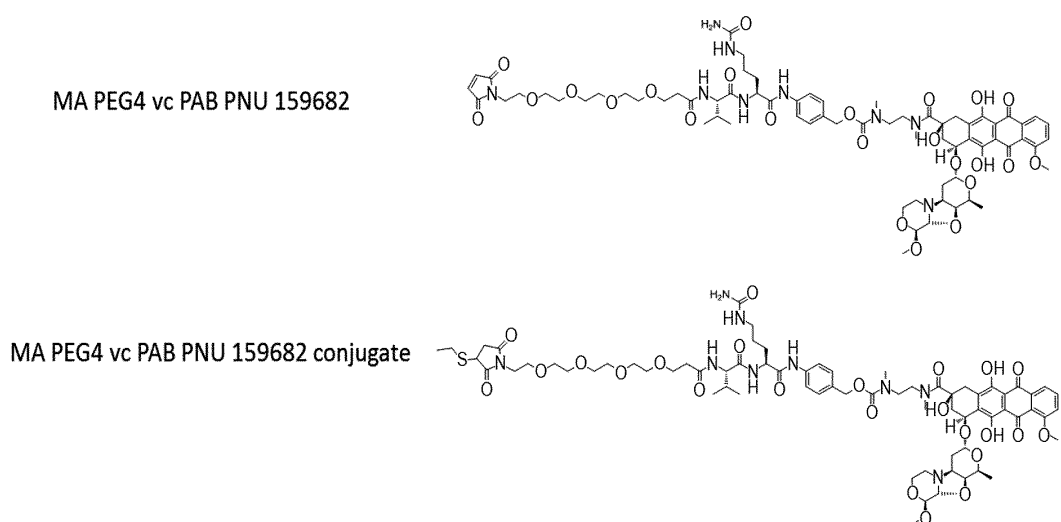


Fig. 32 (continued)

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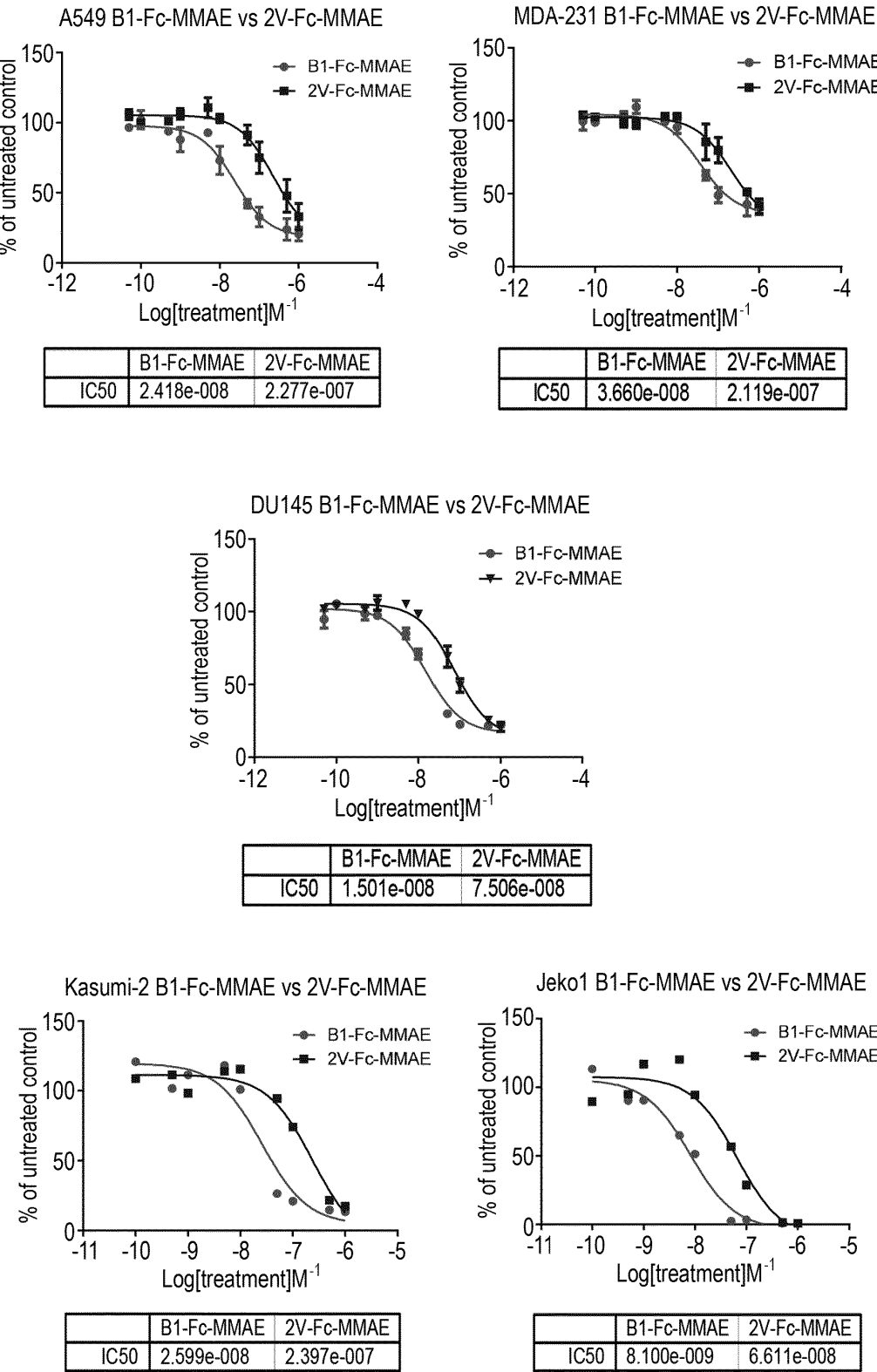
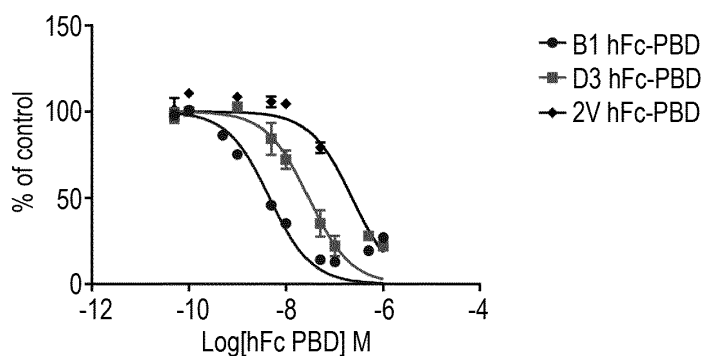


Fig. 33

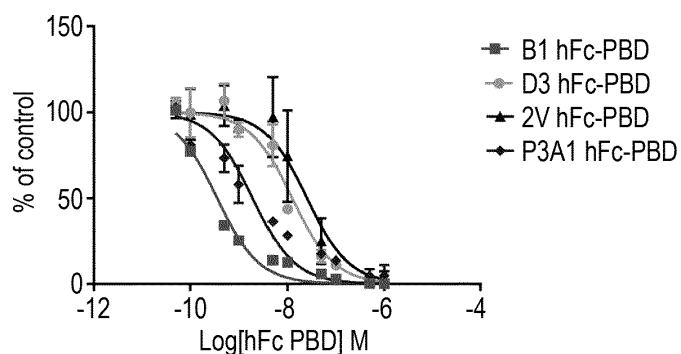
35/40

DU145 cells (96hr cell viability)



	B1 hFc-PBD	D3 hFc-PBD	2V hFc-PBD
IC50	4.612e-009	2.917e-008	2.262e-007

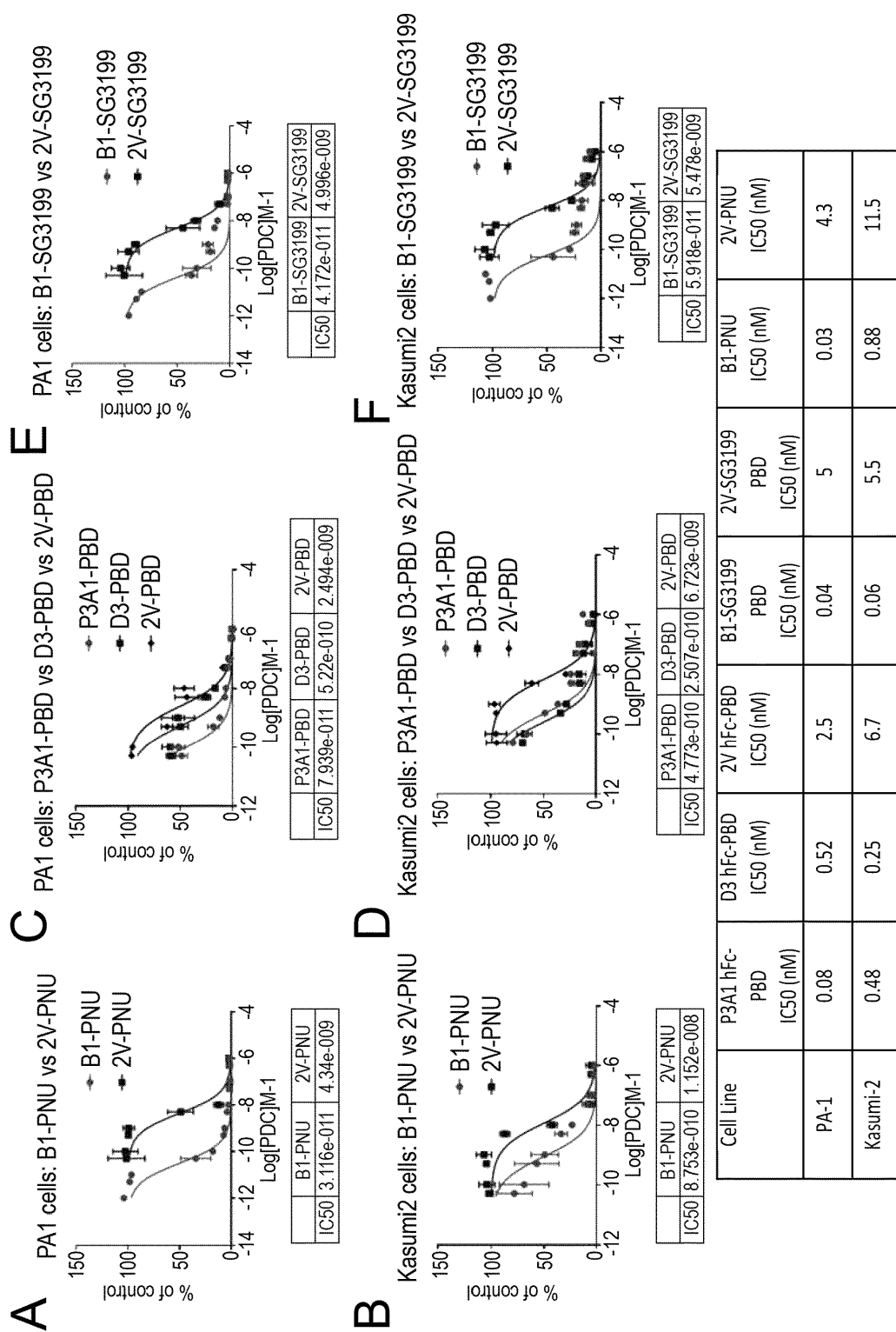
Jeko-1 (96hr cell viability)



	B1 hFc-PBD	P3A1 hFc-PBD	D3 hFc-PBD	2V hFc-PBD
IC50	3.607e-010	1.939e-009	1.256e-008	2.539e-008

Cell Line	B1 hFc-PBD IC50 (nM)	P3A1 hFc-PBD IC50 (nM)	D3 hFc-PBD IC50 (nM)	2V hFc-PBD IC50 (nM)
DU145	4.6	/	29.2	226.2
JeKo-1	0.36	1.9	12.6	25.4

Fig. 34



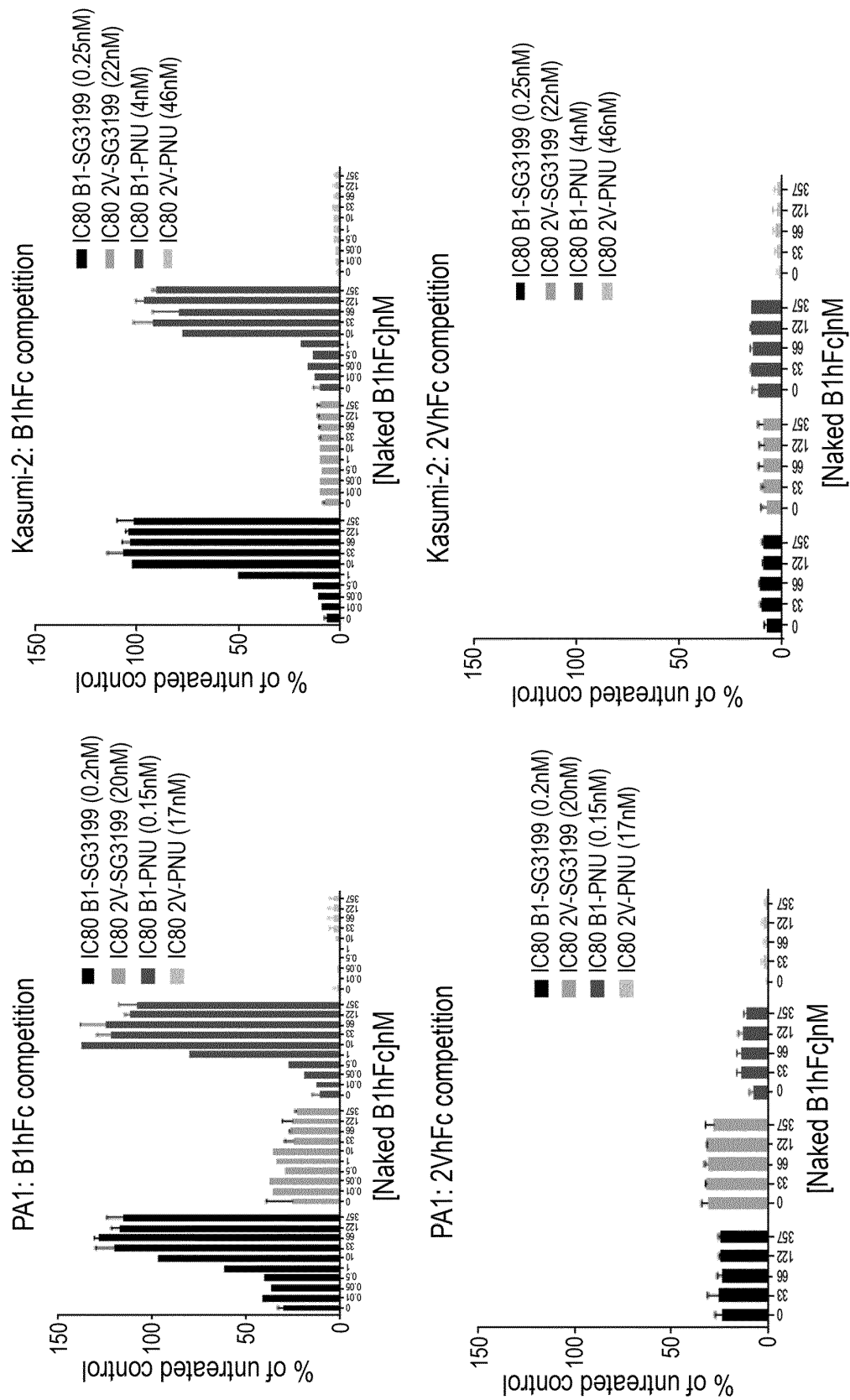


Fig. 35b

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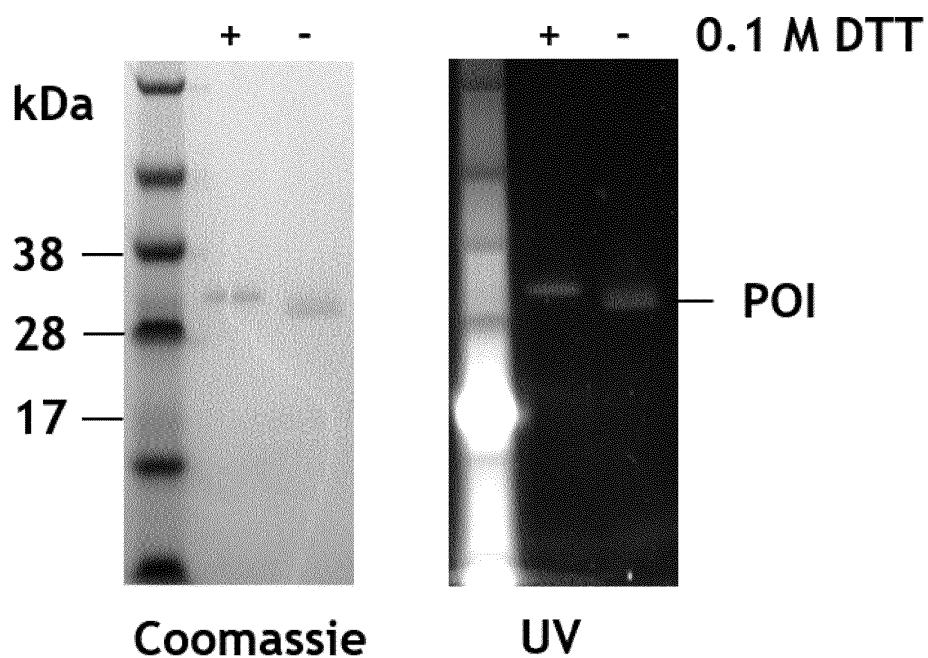
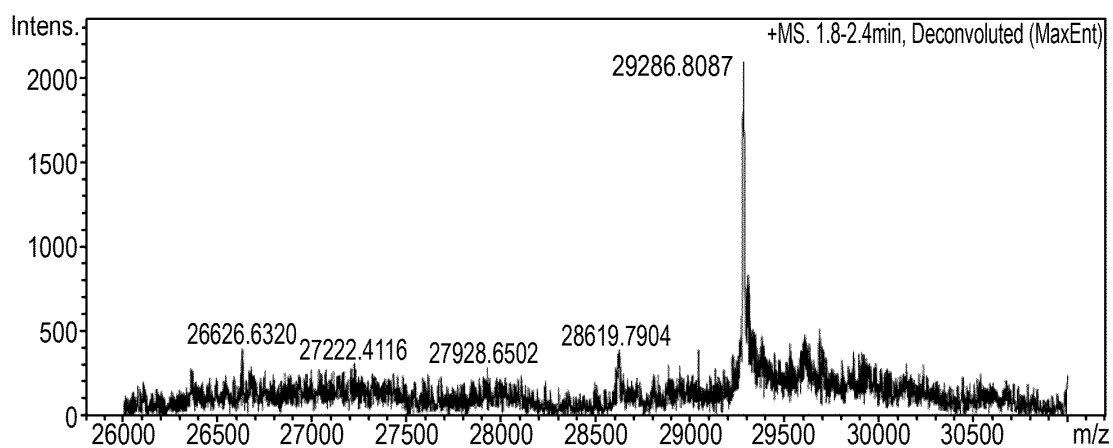


Fig. 36

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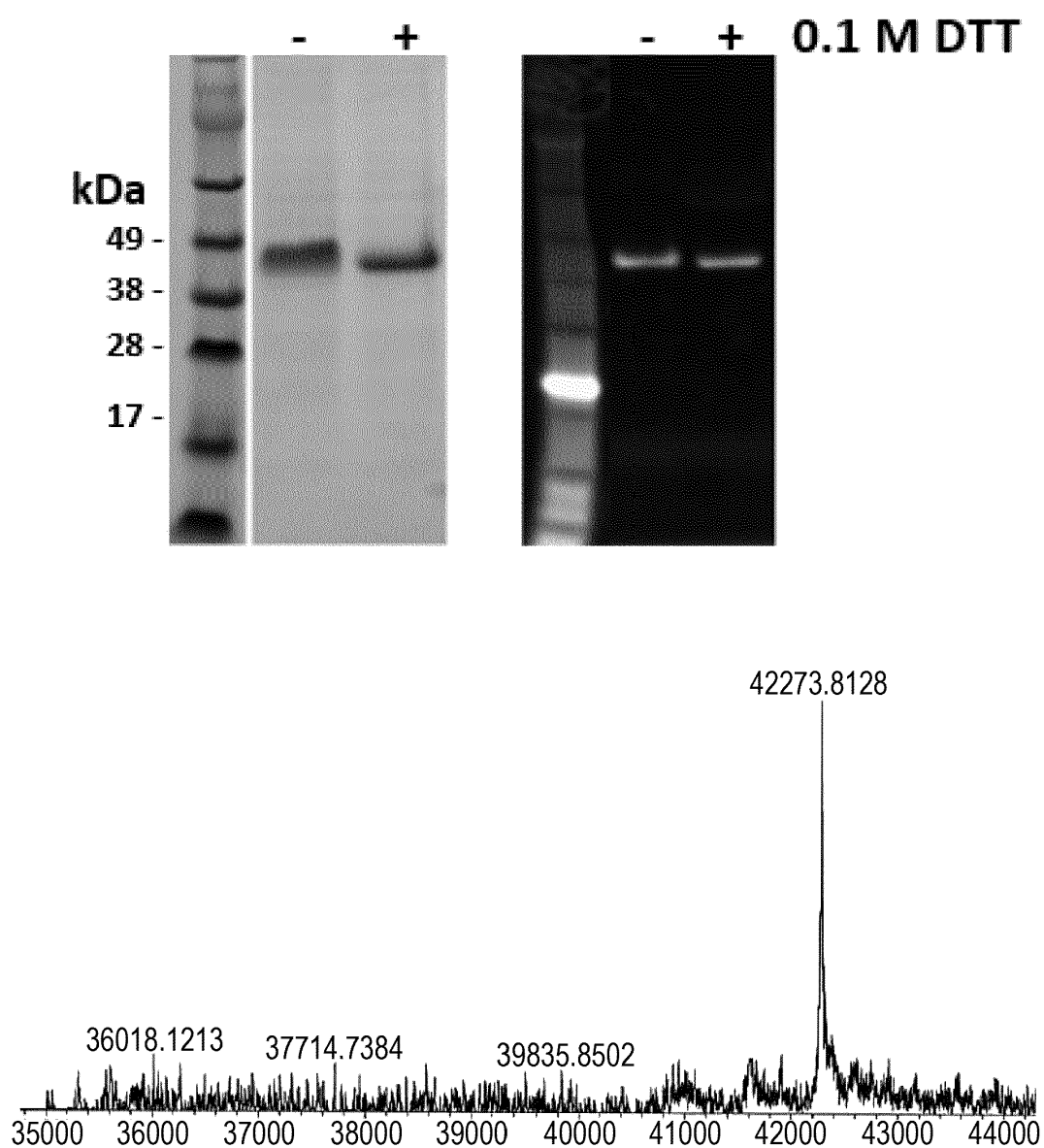


Fig. 37

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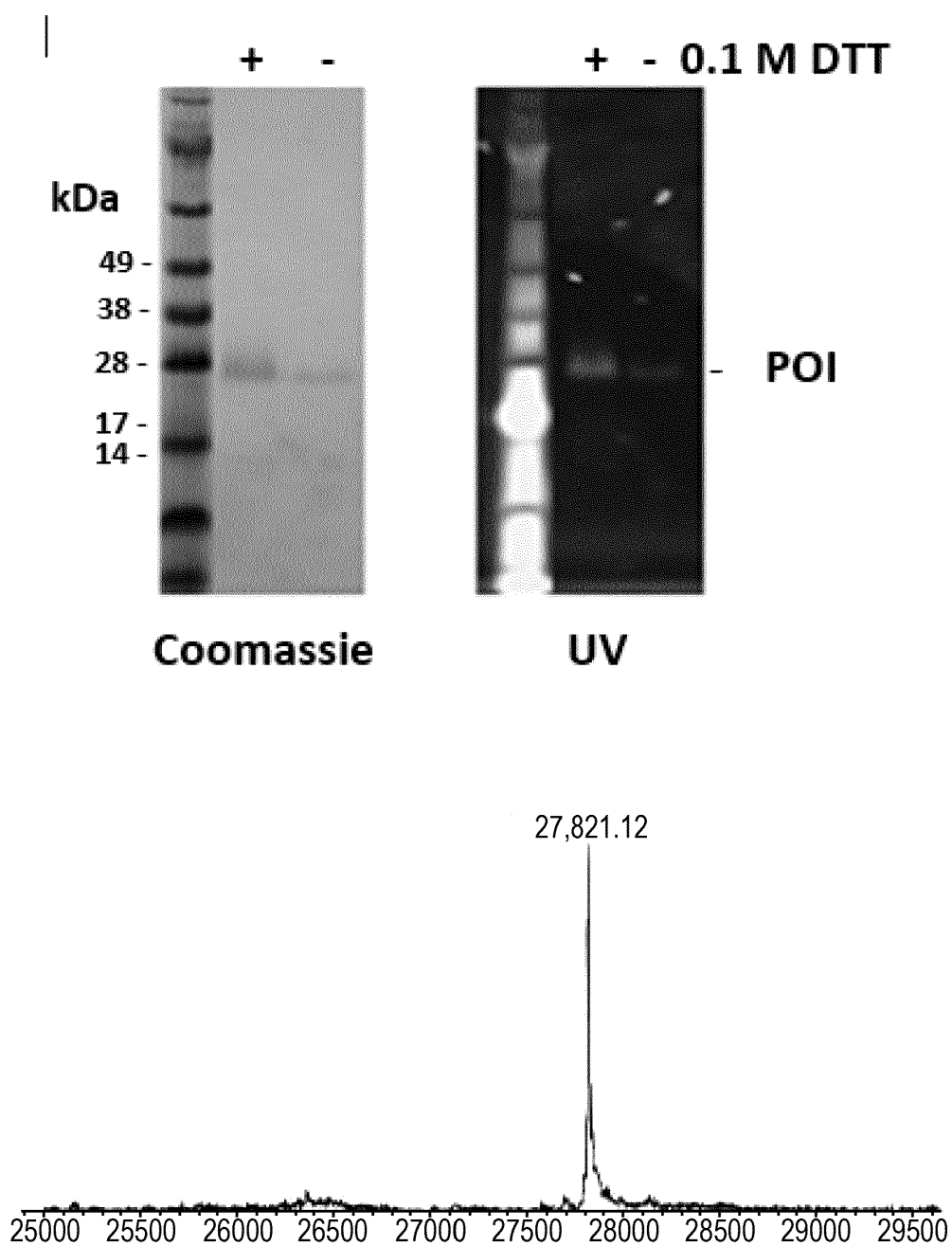


Fig. 38