

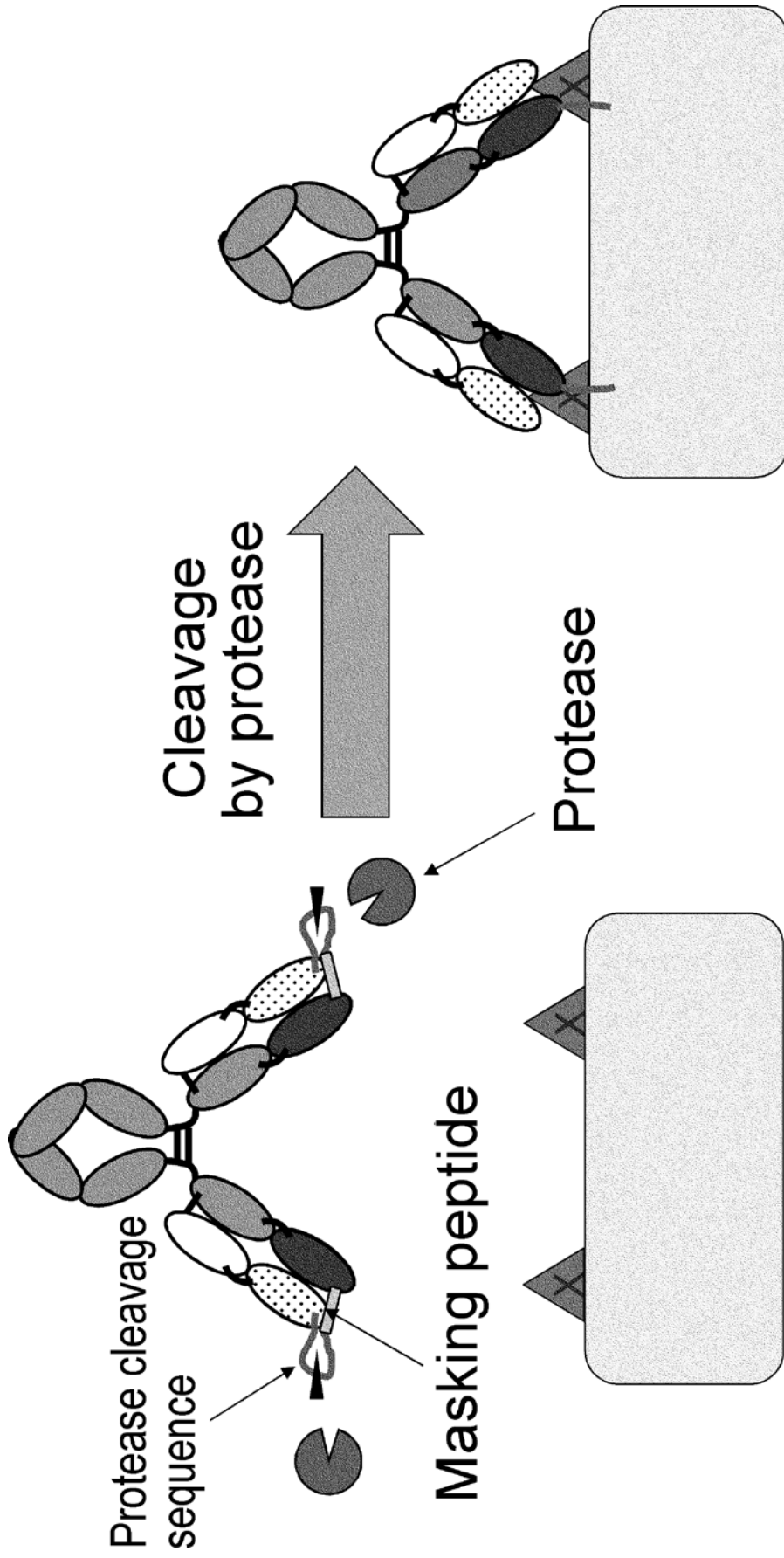


FIG. 1

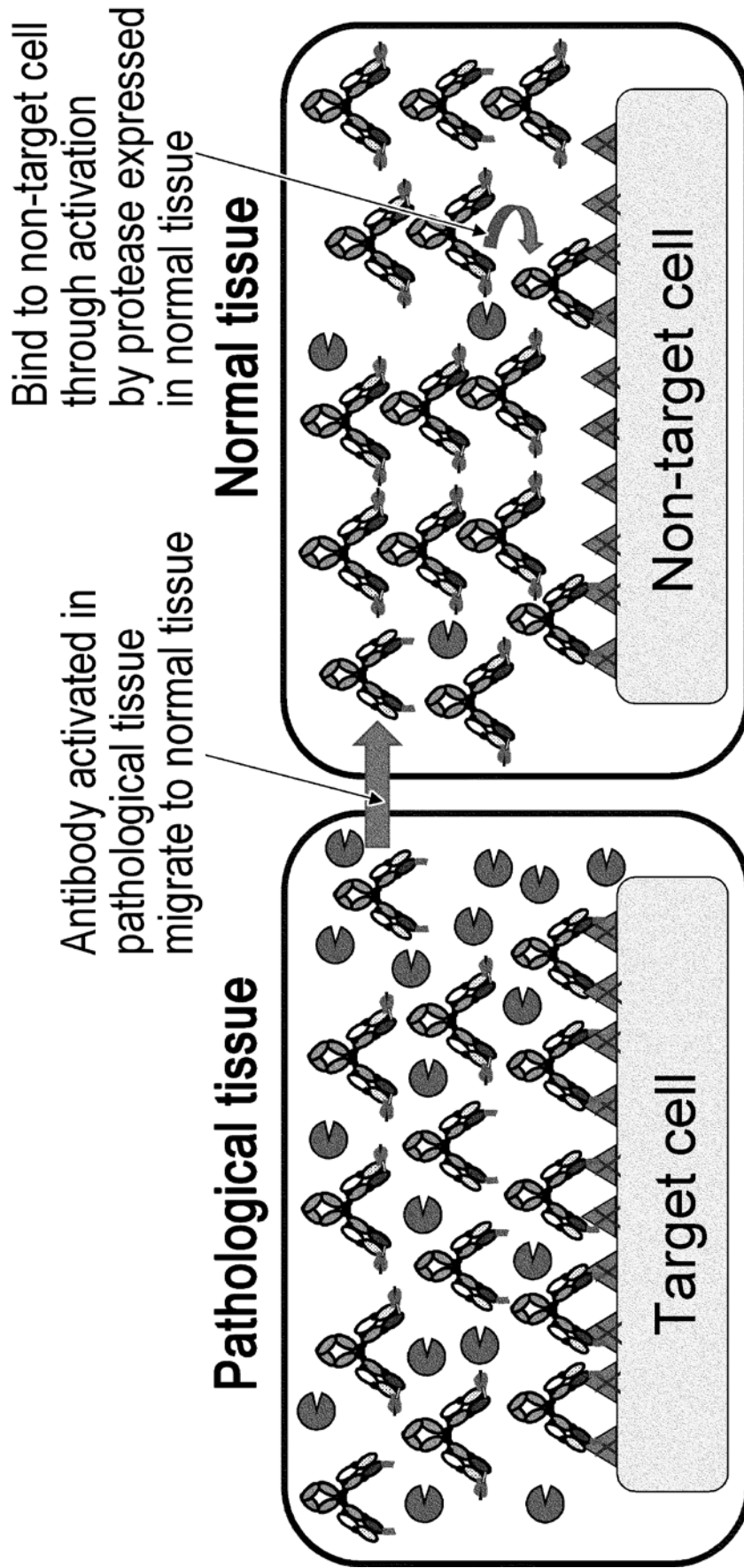


FIG. 2

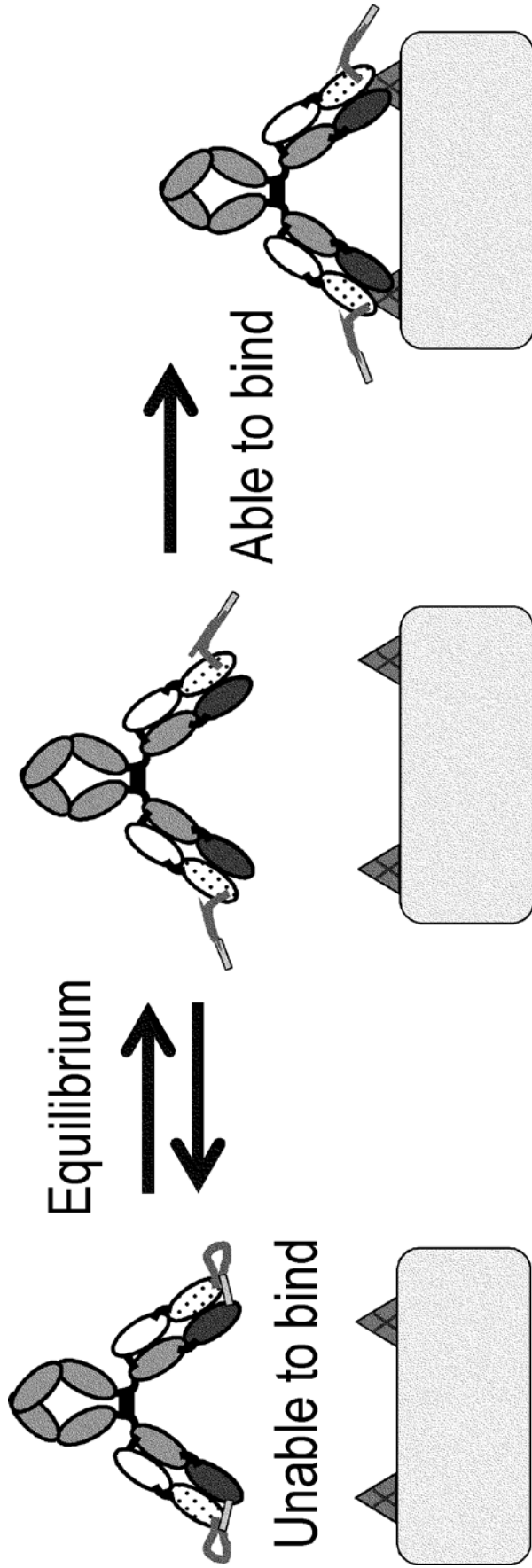


FIG. 3

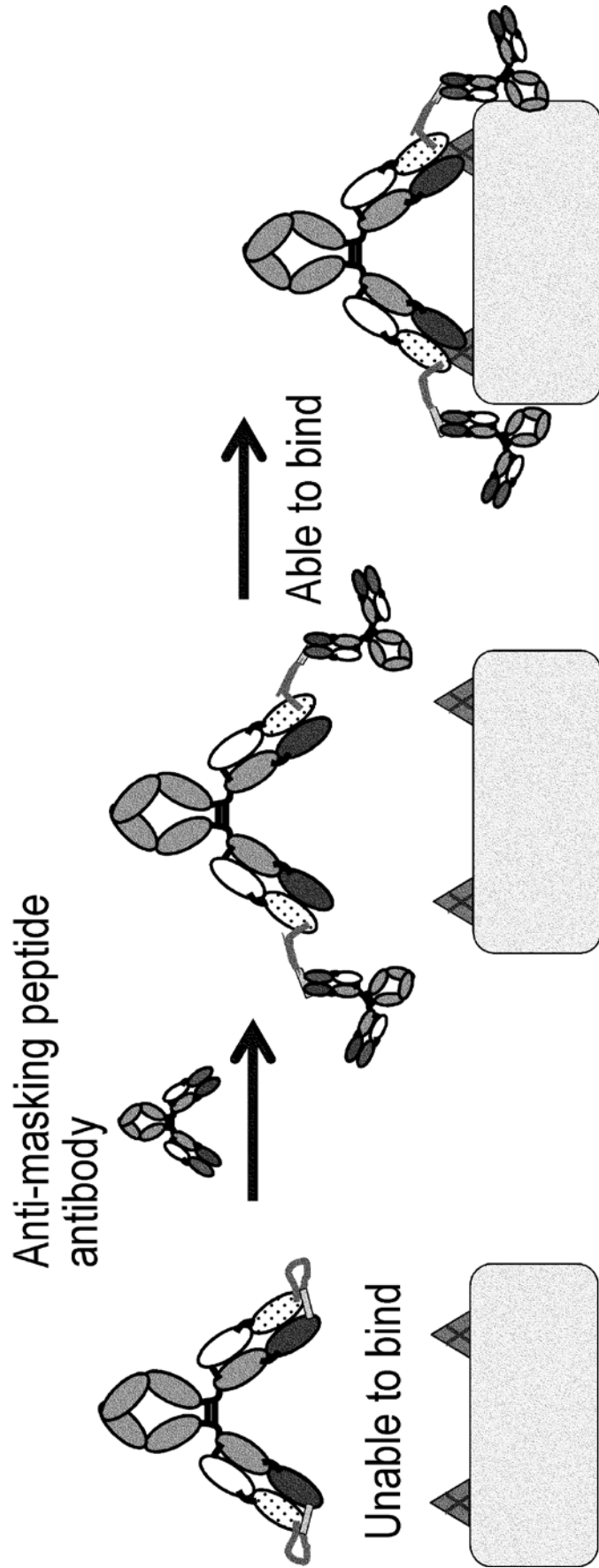


FIG. 4

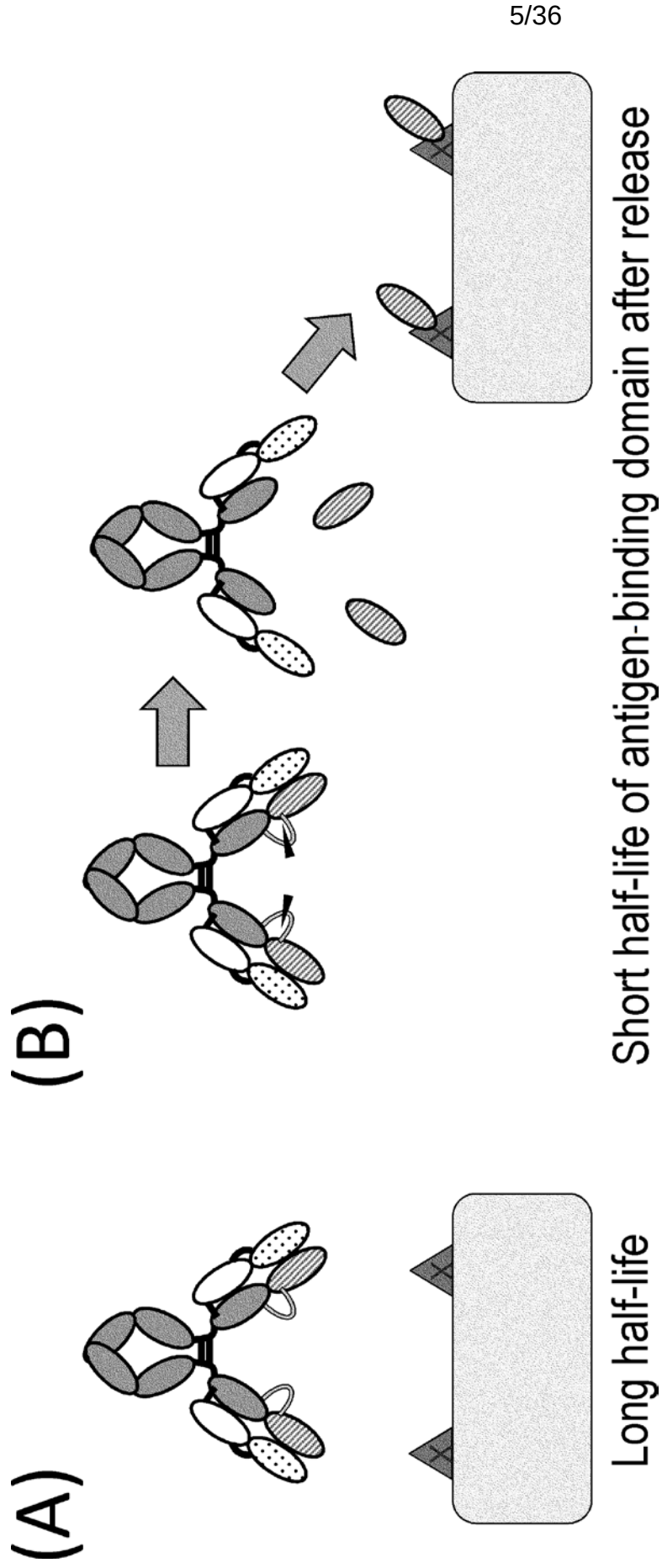


FIG. 5

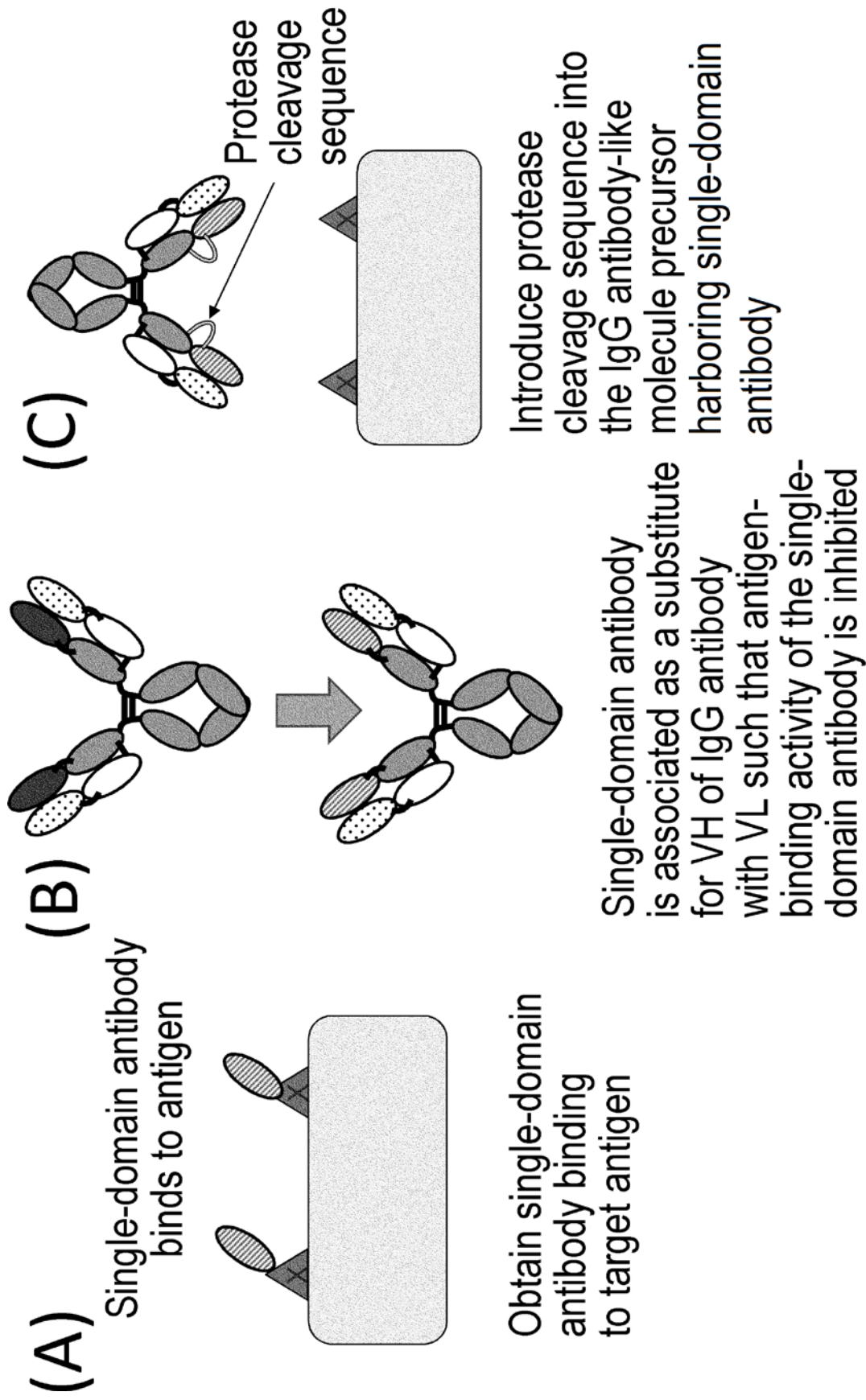


FIG. 6

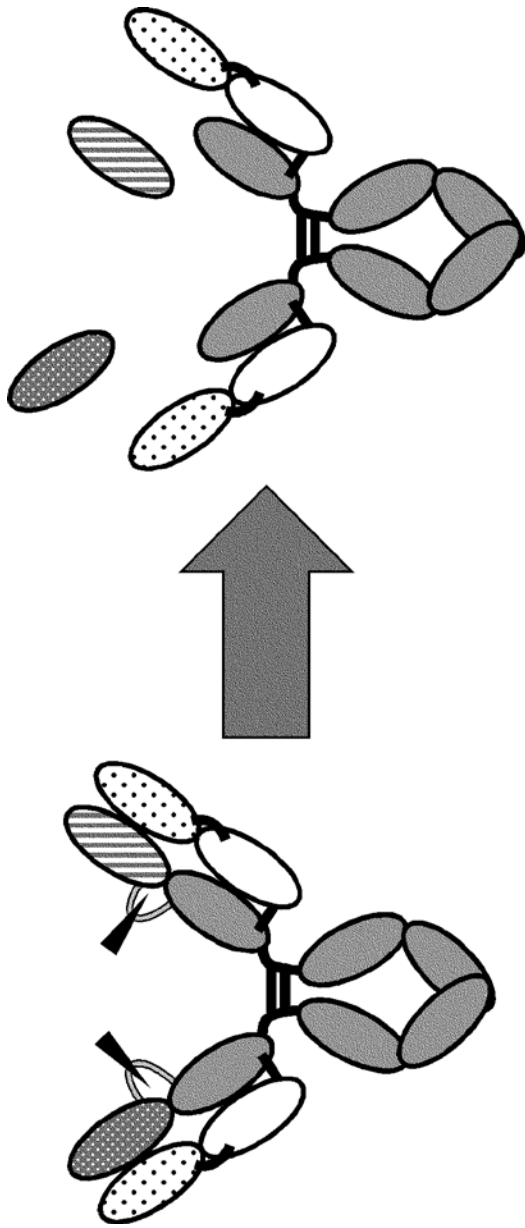


FIG. 7

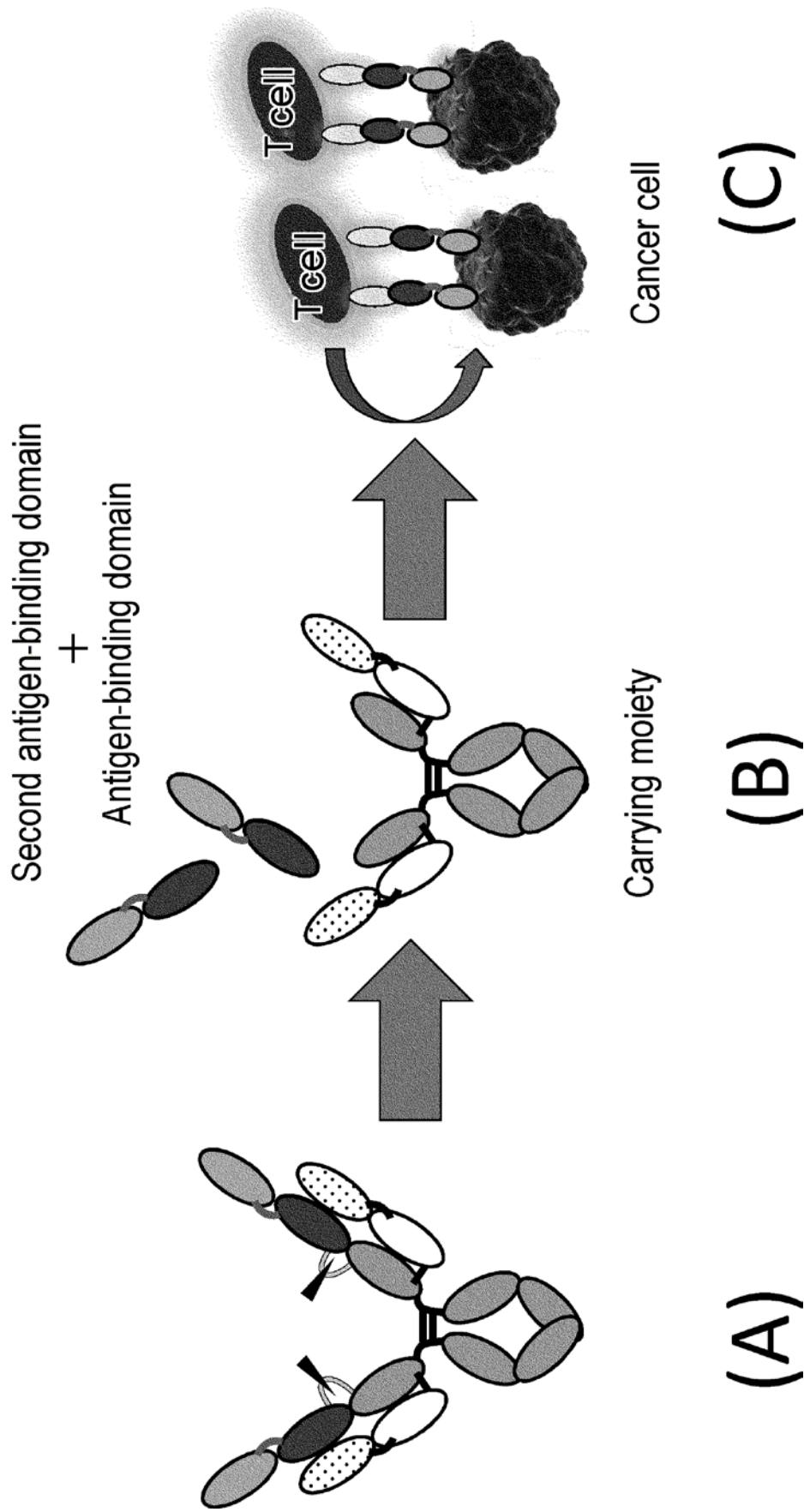


FIG. 8

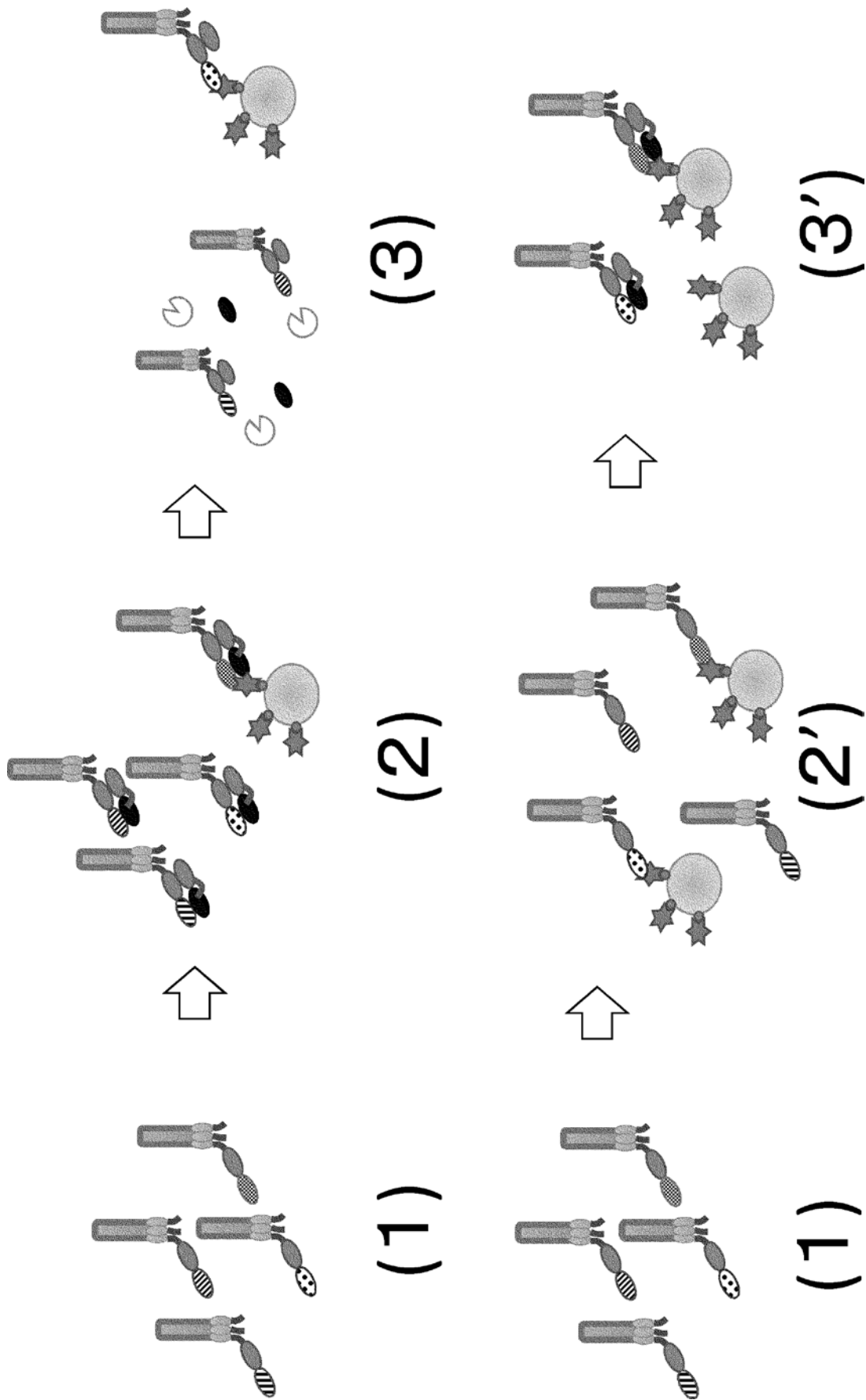


FIG. 9A

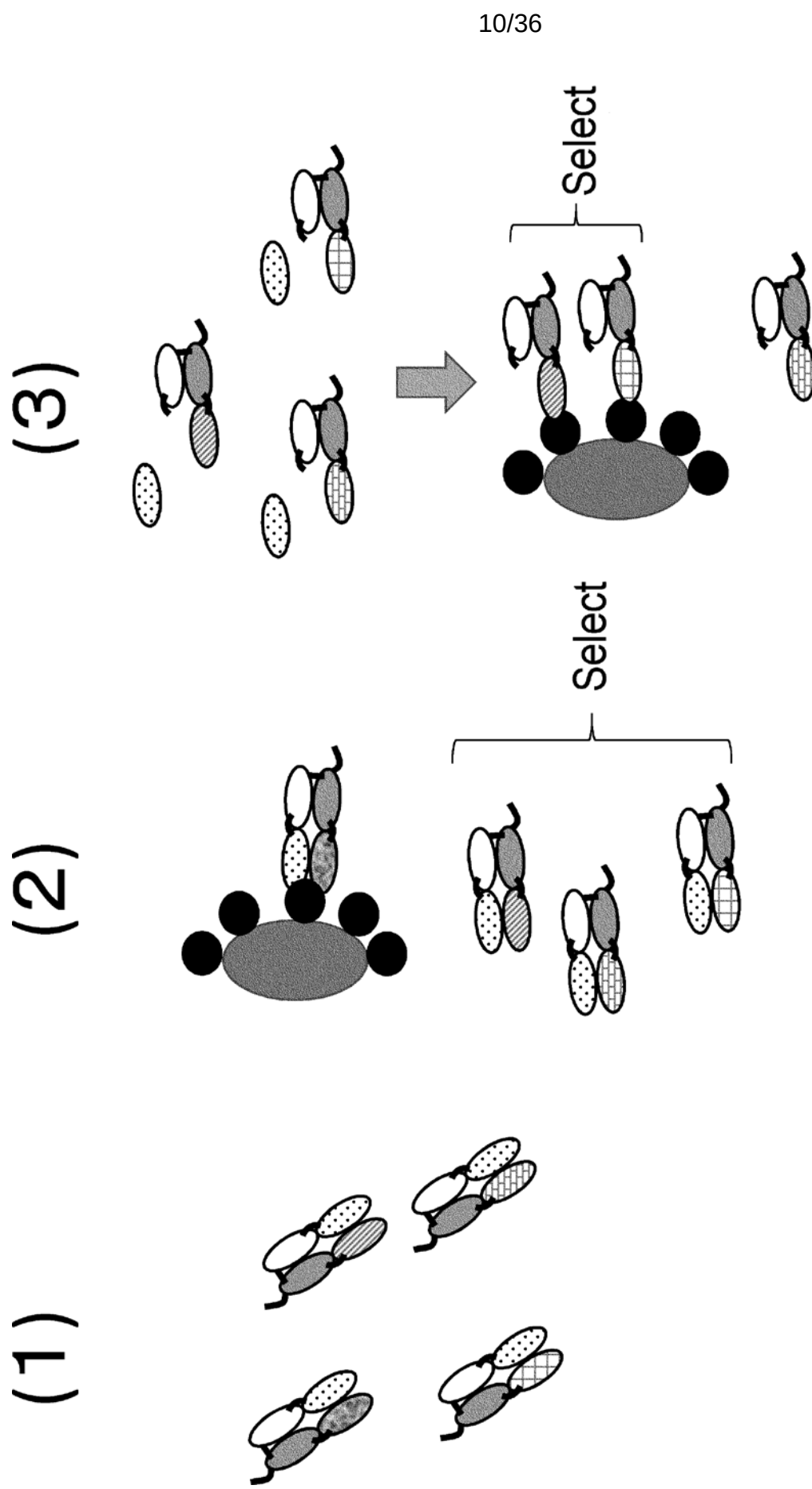


FIG. 9B

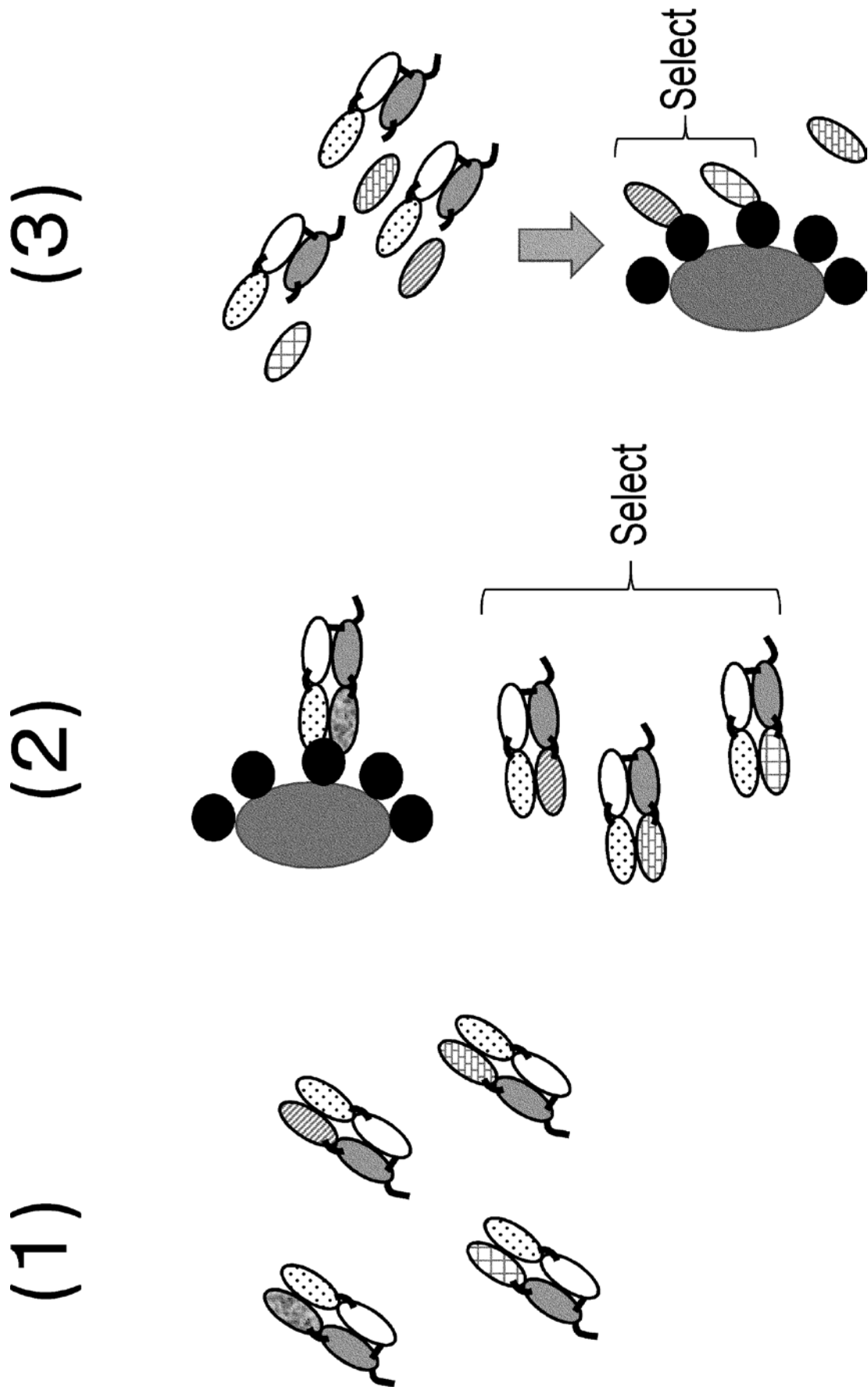


FIG. 9C

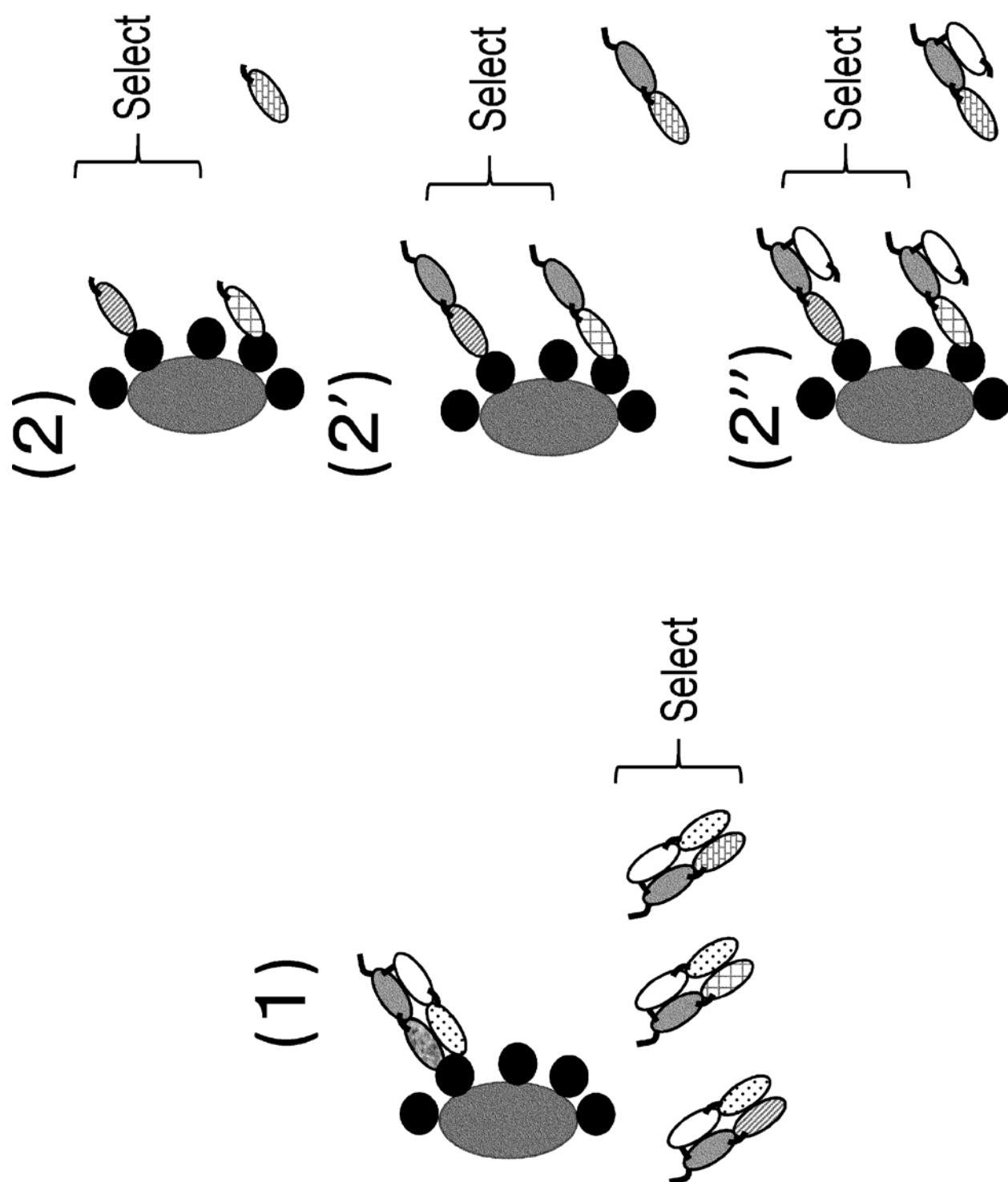


FIG. 9D

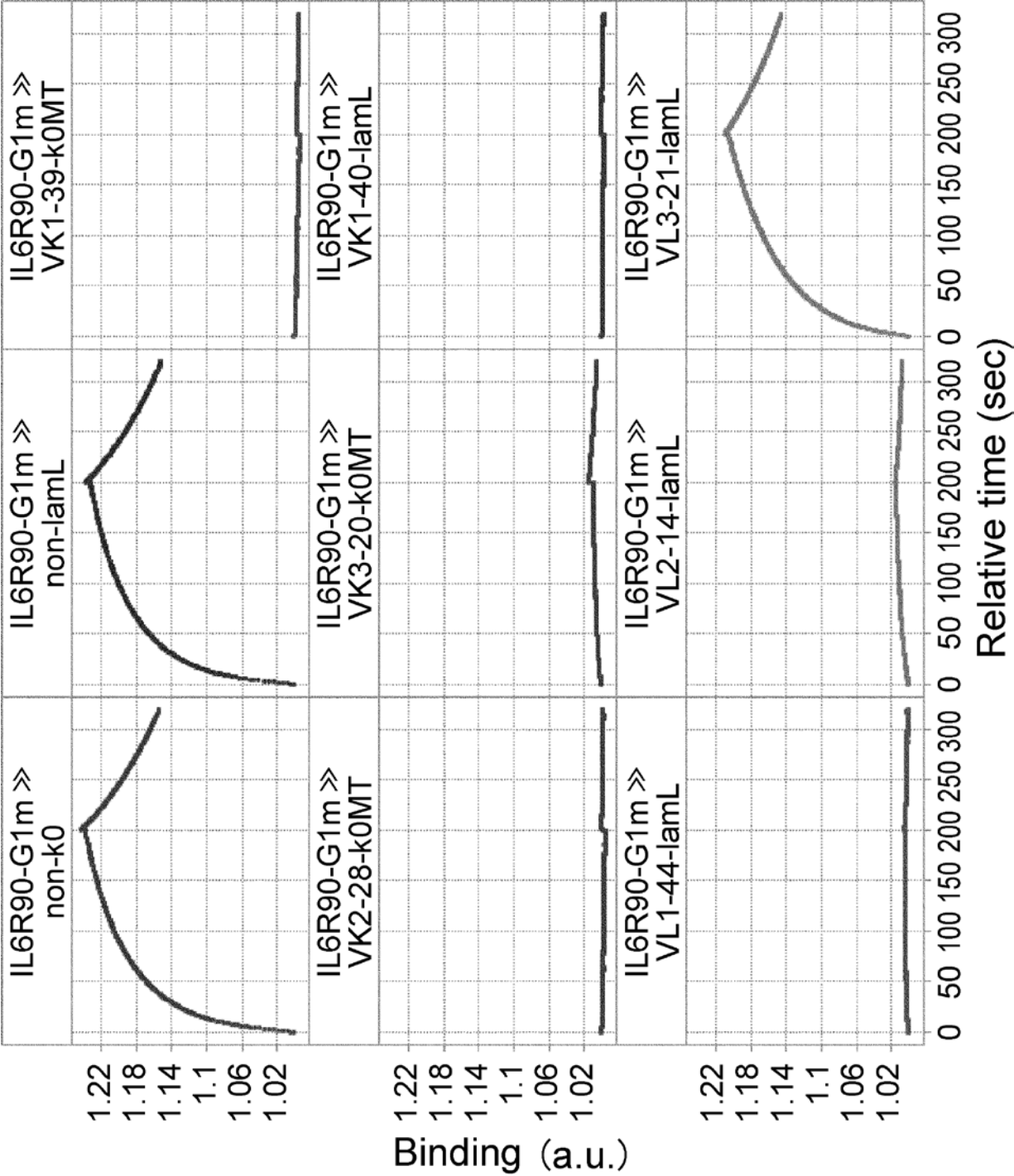
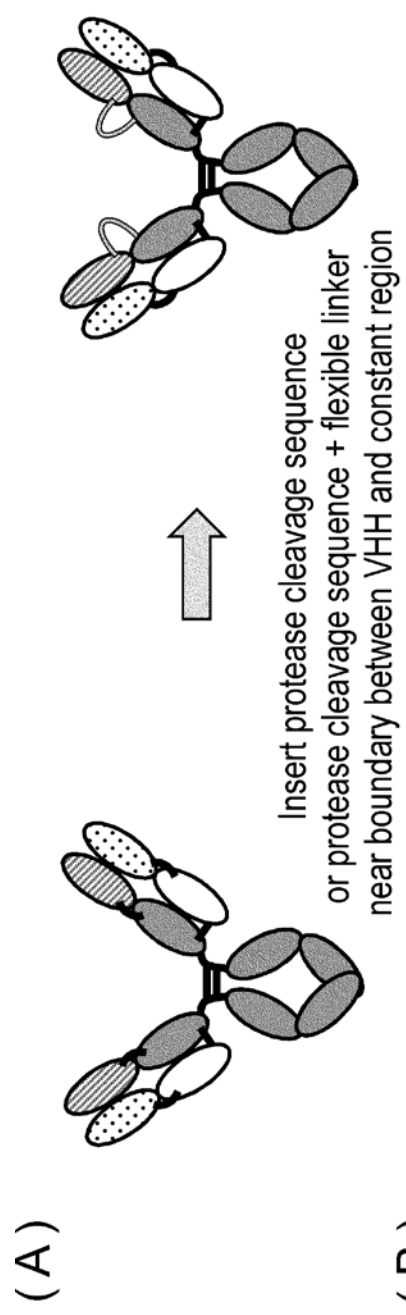


FIG. 10



Heavy chain name	Insertion site	Inserted amino acid sequence
6R90H1001	TVSSAS [insert] TKGP	LSGRSDNH (SEQ ID NO : 12)
6R90H1002	TVSSAS [insert] TKGP	SGGSLSGRSDNHGSSGG (SEQ ID NO : 44)
6R90H1003	TV [insert] SSASTKGP	LSGRSDNHG (SEQ ID NO : 45)
6R90H1004	TV [insert] SSASTKGP	SGGSLSGRSDNHGSSGG (SEQ ID NO : 44)
6R90H1005	TVSSASTK [insert] GP	LSGRSDNHG (SEQ ID NO : 45)
6R90H1006	TVSSASTK [insert] GP	SGGSLSGRSDNHGSSGG (SEQ ID NO : 44)

FIG. 11

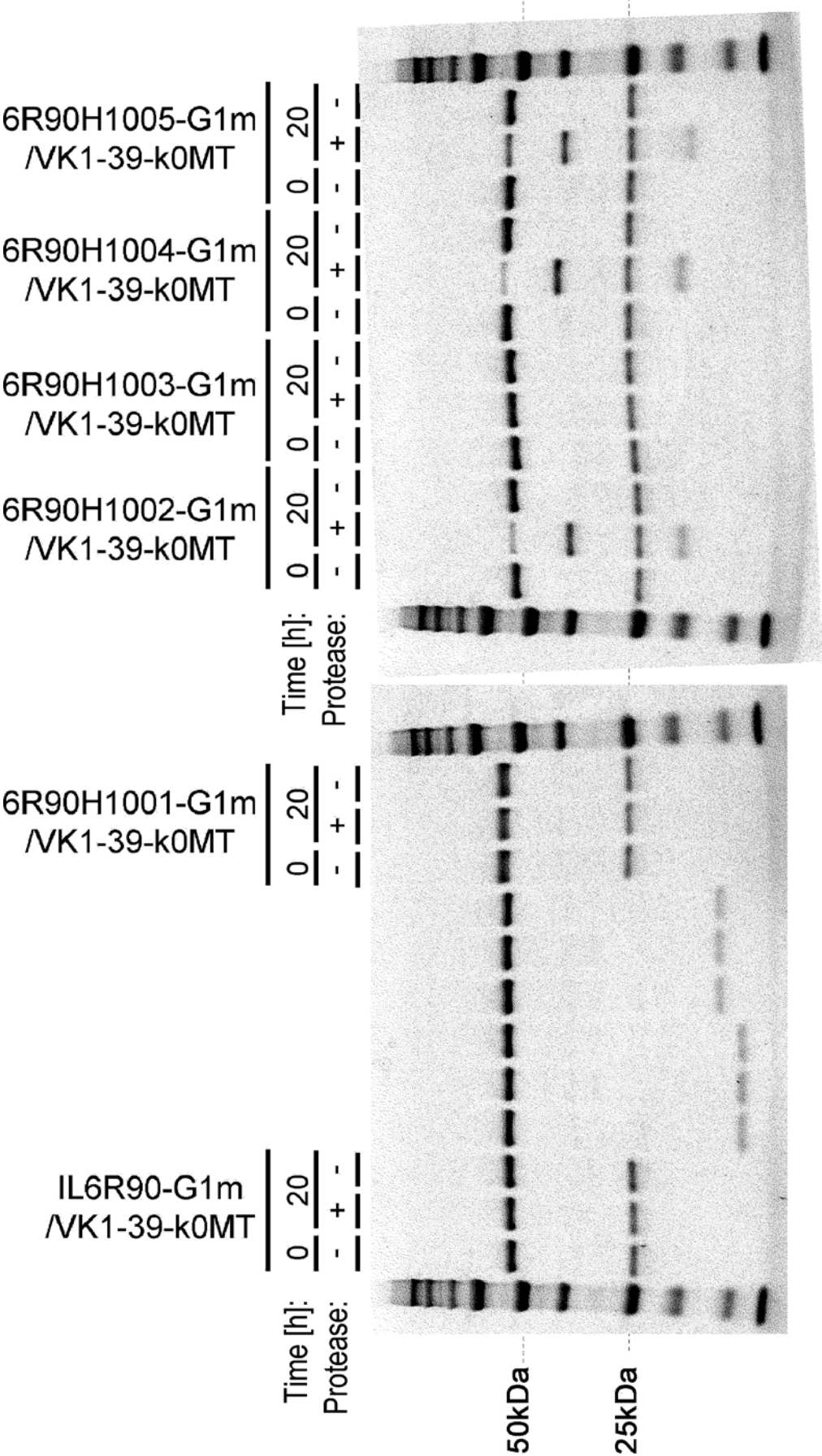


FIG. 12-1

6R90H1006-G1m
VK1-39-k0MT

Time [h]:	0	20
Protease:	-	+

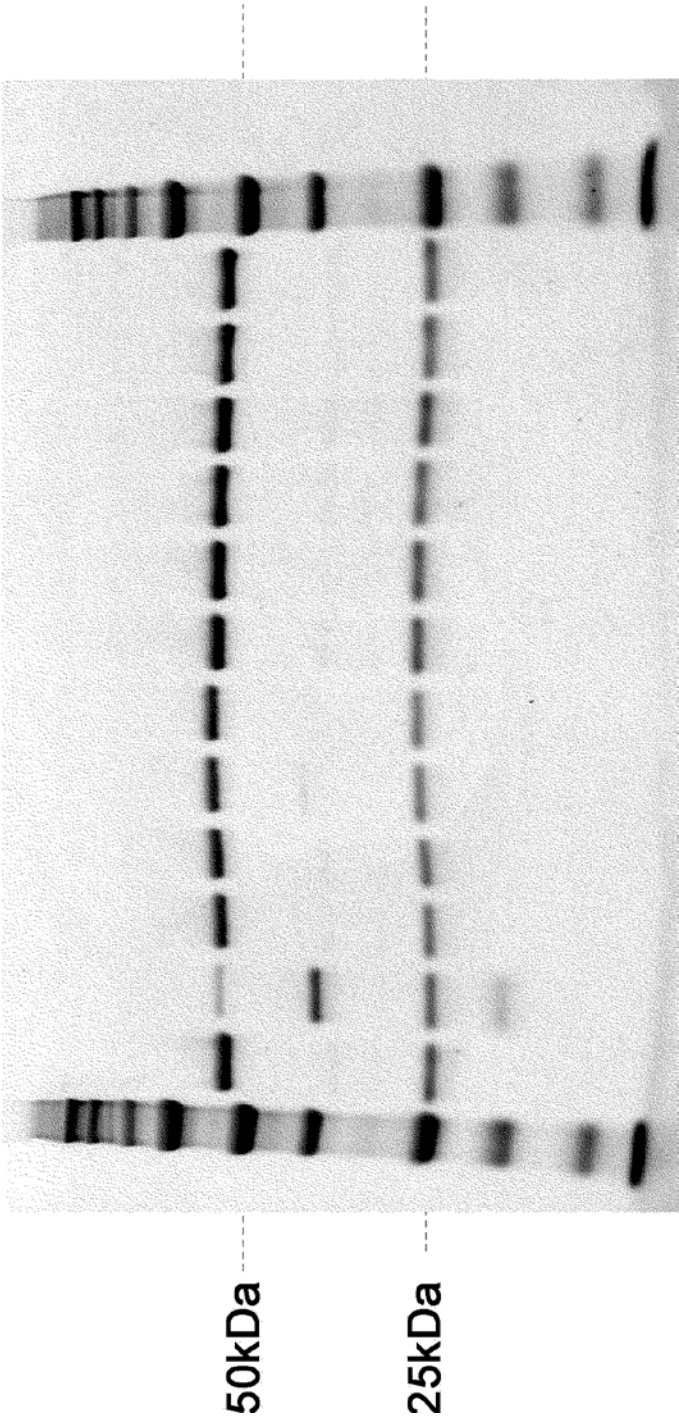


FIG. 12-2

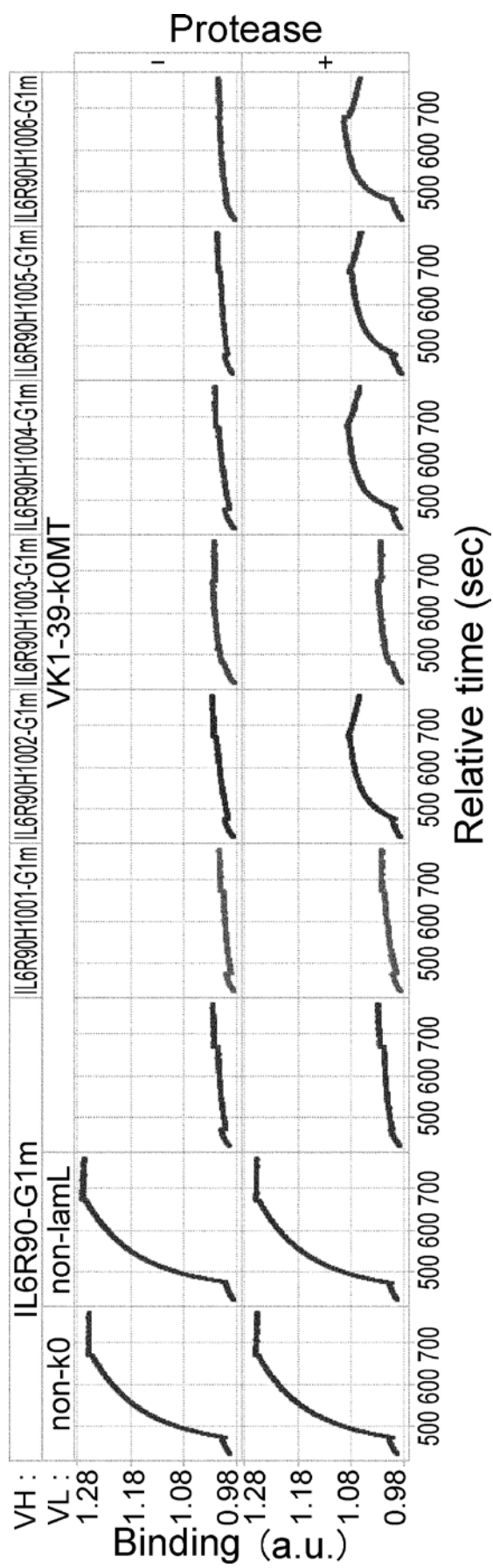


FIG. 13

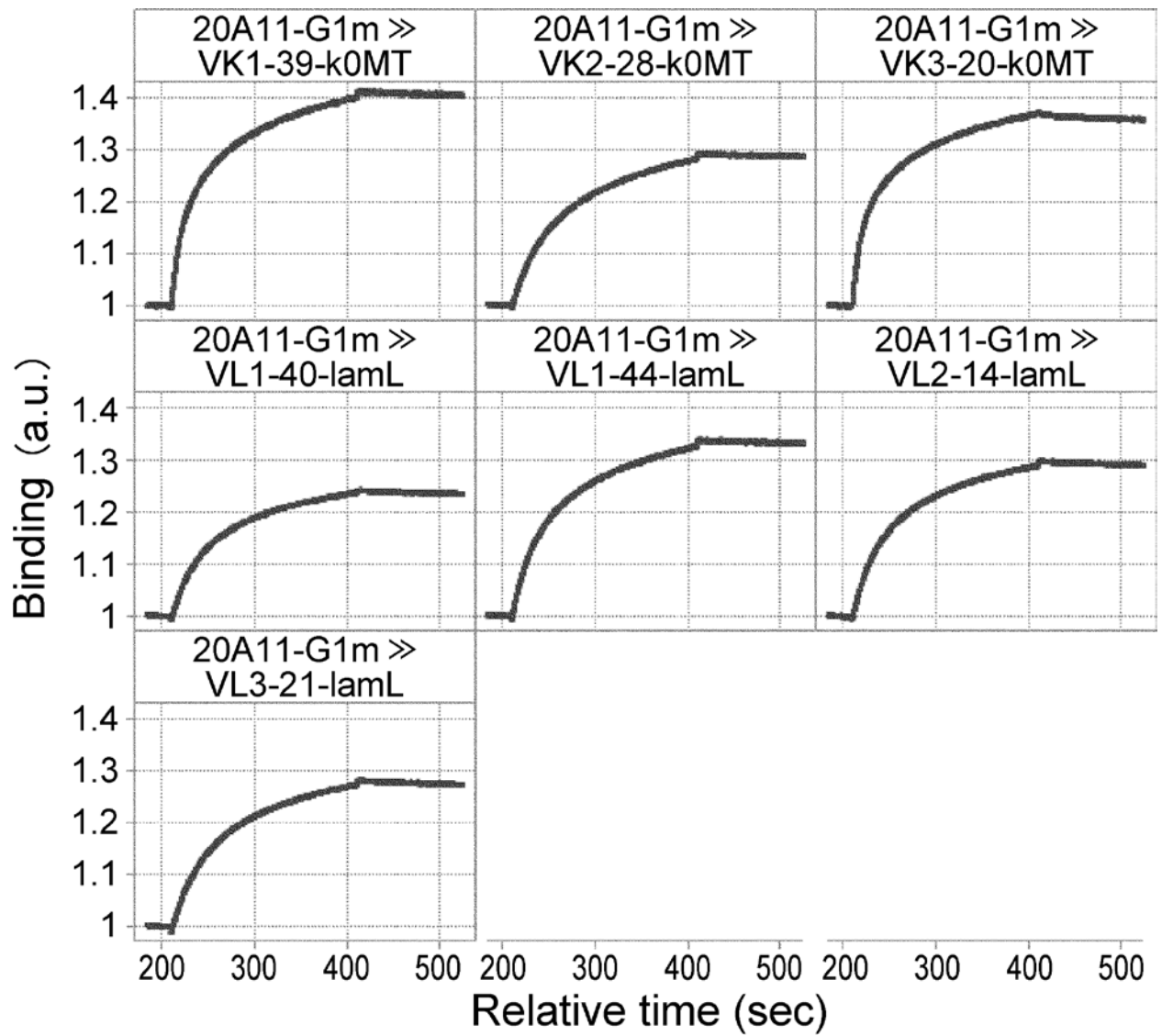


FIG. 14

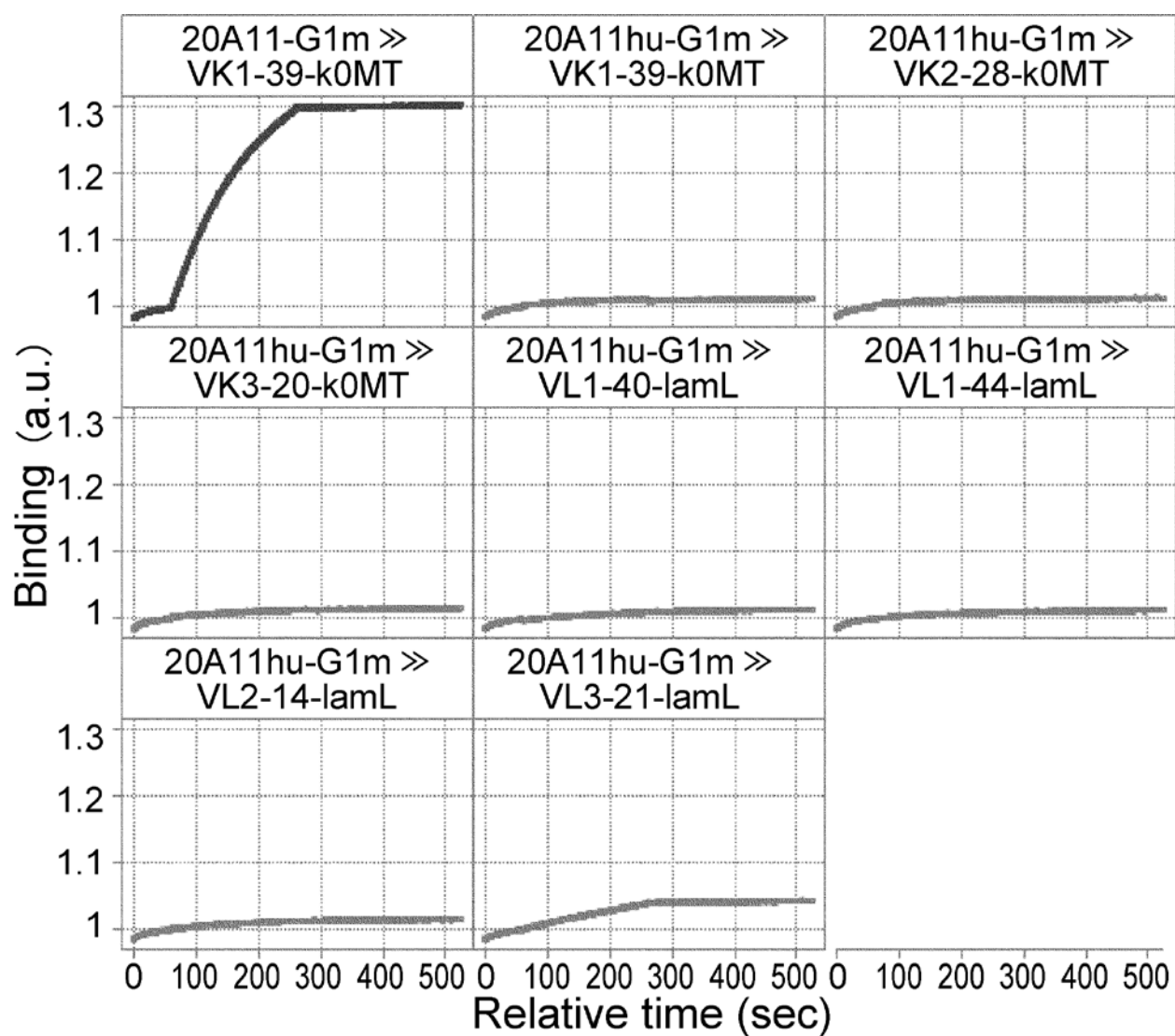


FIG. 15

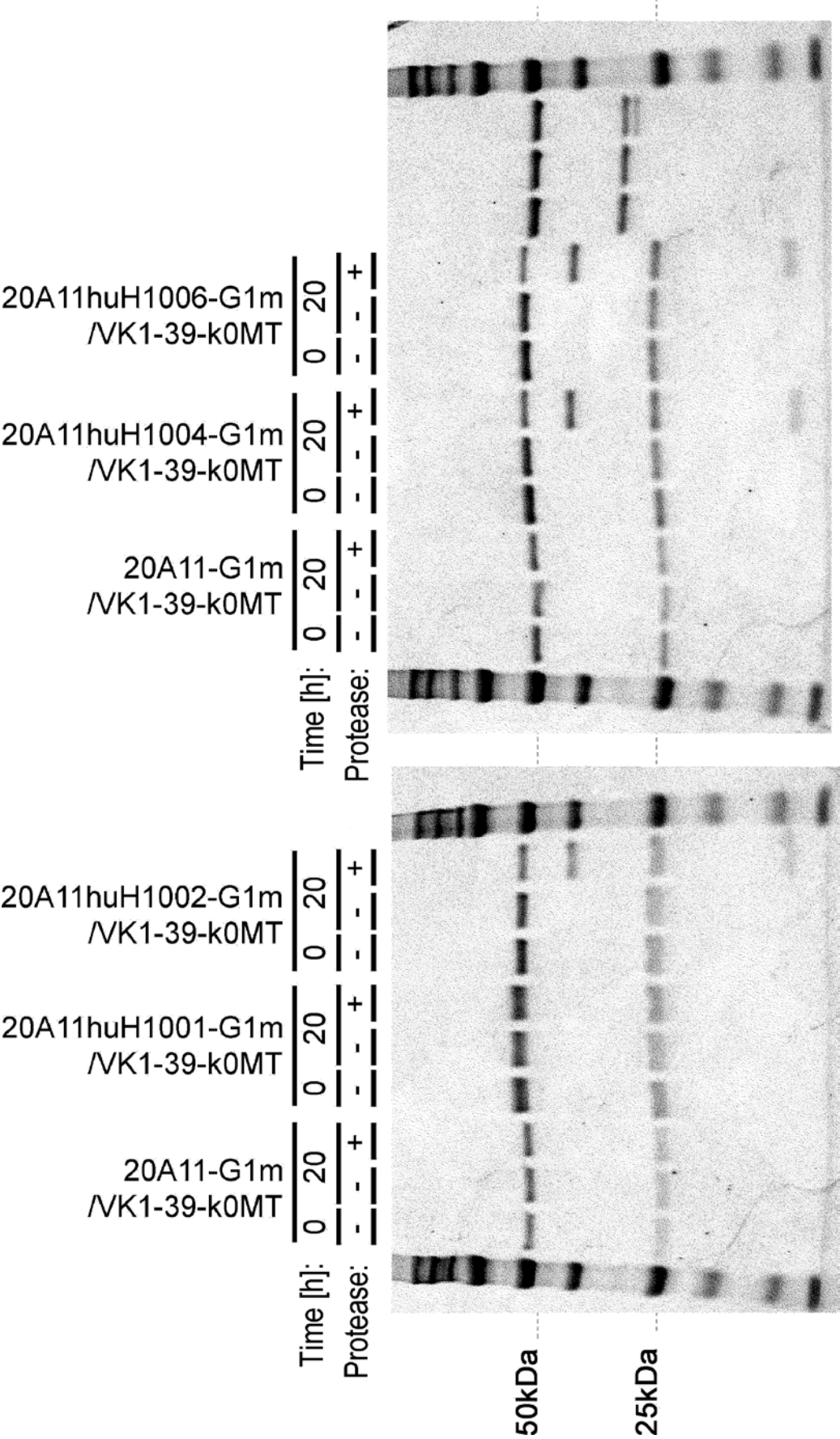


FIG. 16

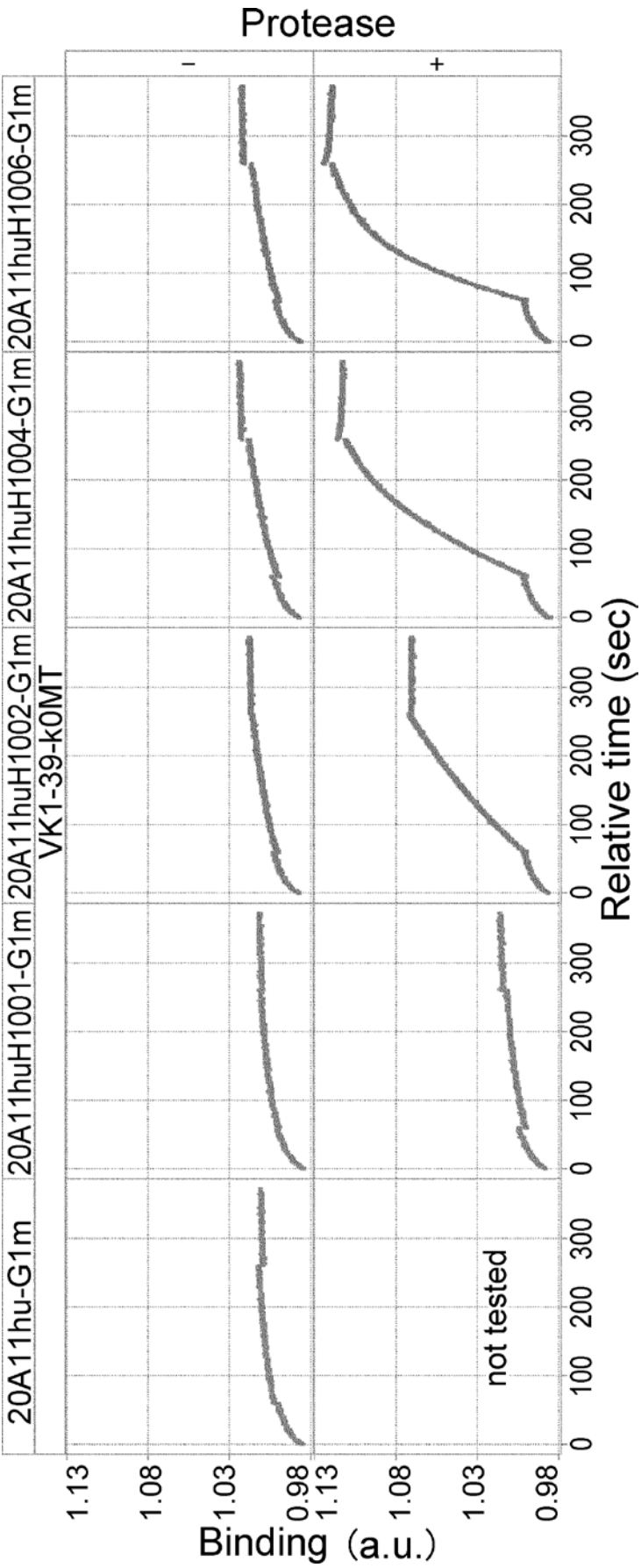


FIG. 17

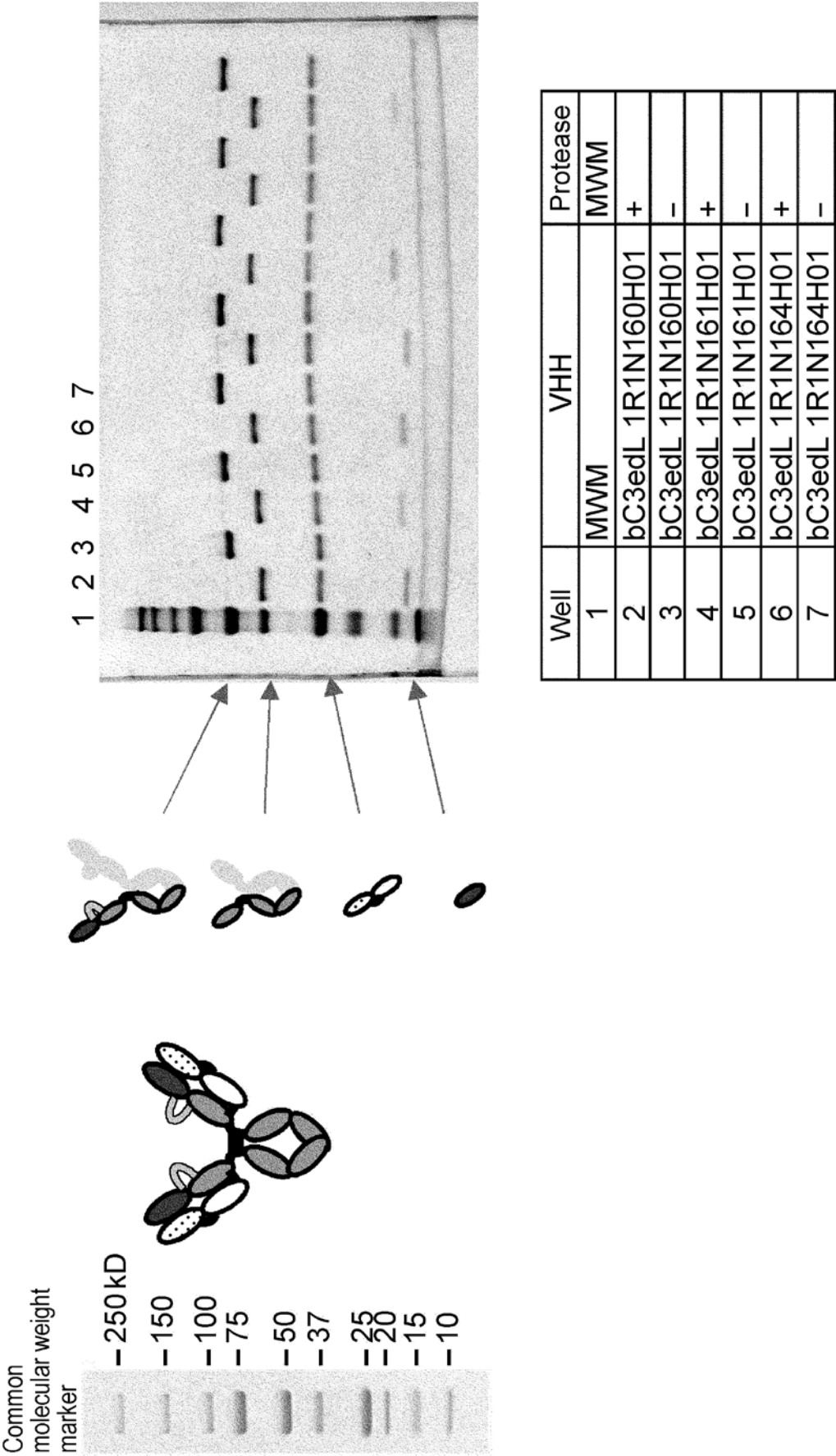


FIG. 18

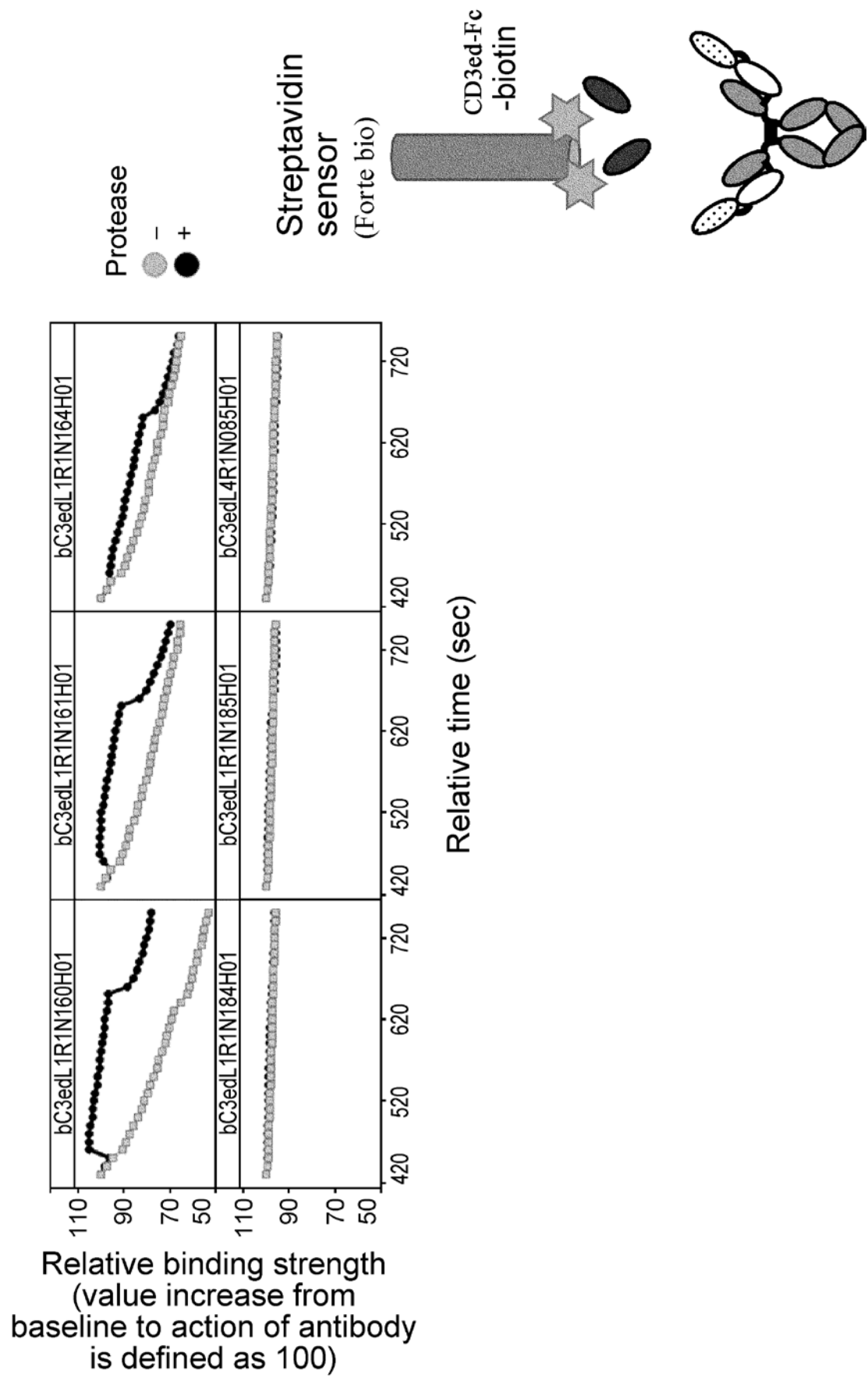
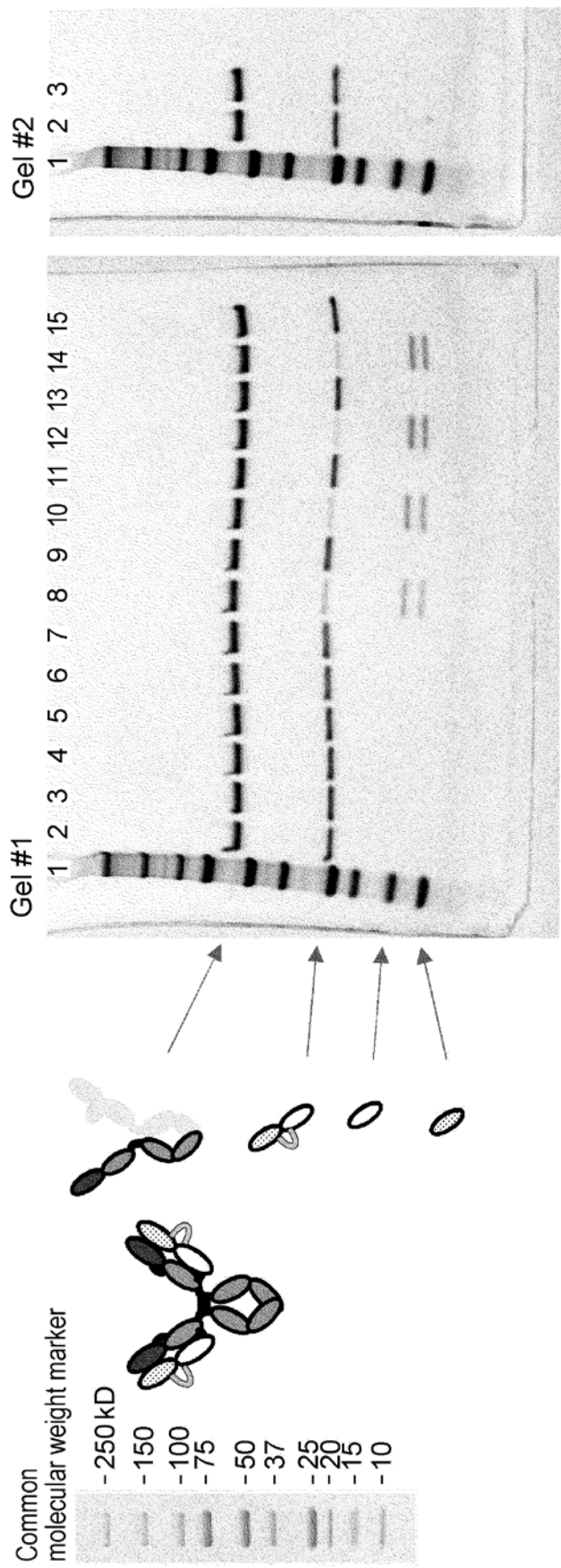


FIG. 19



Gel	Well	Sample	Protease MWM	Protease cleavage site	Reactivity with MT-SP1
1	1	MWM			
	2	VP_IL6R90-G1m/VK1-39P-2-Pk0MT	+	VE^IKRTVAAPS	-
	3		-		
	4	VP_IL6R90-G1m/VK1-39P-1-Pk0MT	+	VEI^KRTVAAPS	-
	5		-		
	6	VP_IL6R90-G1m/VK1-39P-Pk0MT	+	VEIK^RTVAAPS	-
	7		-		
	8	VP_IL6R90-G1m/VK1-39P+2-Pk0MT	+	VEIKRT^VAAPS	+
	9		-		
	10	VP_IL6R90-G1m/VK1-39P+3-Pk0MT	+	VEIKRTV^AAPS	+
	11		-		
	12	VP_IL6R90-G1m/VK1-39P+4-Pk0MT	+	VEIKRTVA^APS	+
	13		-		
	14	VP_IL6R90-G1m/VK1-39P+5-Pk0MT	+	VEIKRTVAA^PS	+
	15		-		
2	2	VP_IL6R90-G1m/VK1-39-k0MT	+	VEIKRTVAAPS	-
	3		-		

FIG. 20

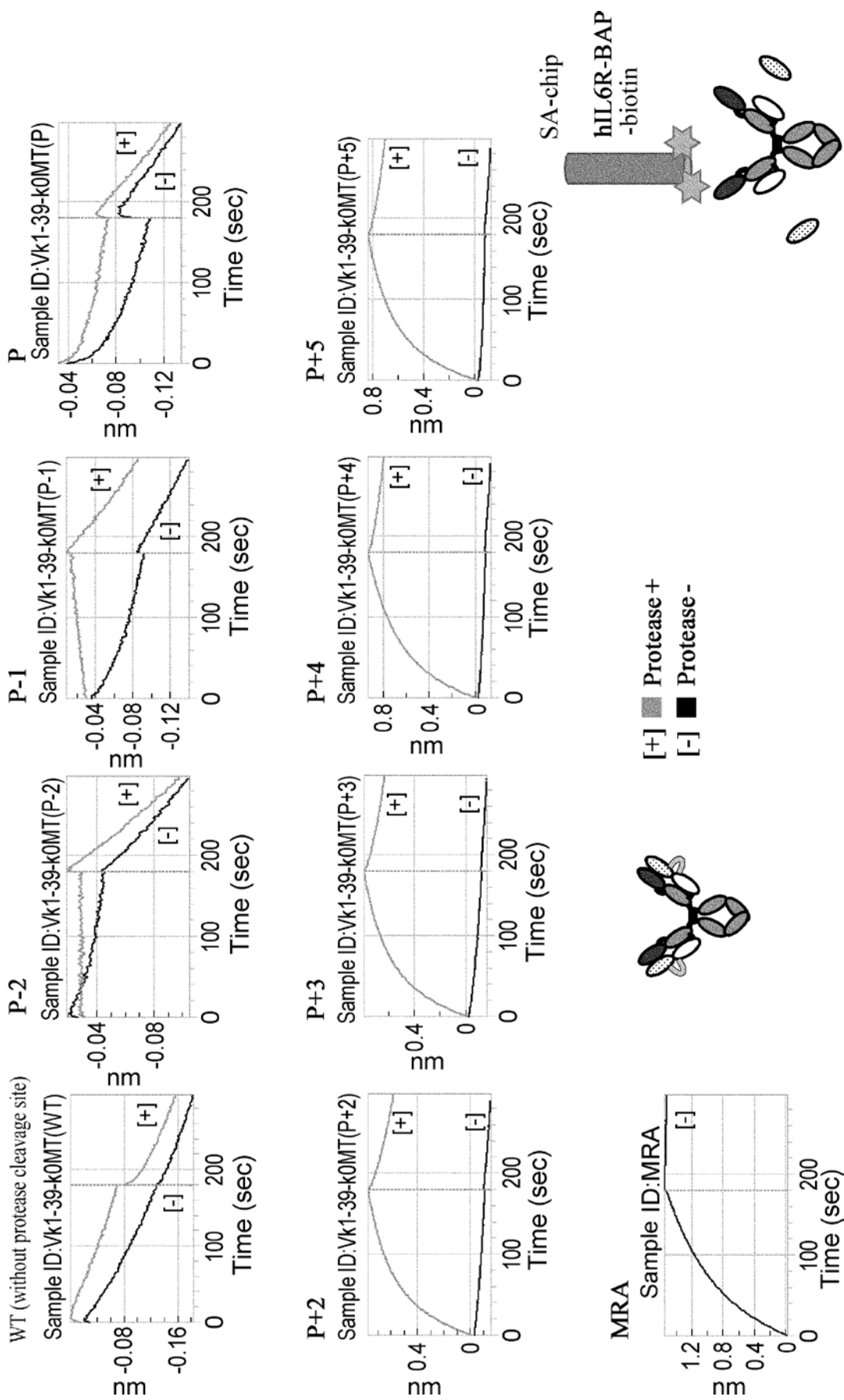


FIG. 21

PX03-R4_009-G1mISHI01
/VK1-39-k0MT

PX03-R2_006-G1mISHI01
/VK1-39-k0MT

PX02-R4_017-G1mISHI01
/VK1-39-k0MT

PX02-R4_004-G1mISHI01
/VK1-39-k0MT

PX02-R2_001-G1mISHI01
/VK1-39-k0MT

Time [h]:
protease :

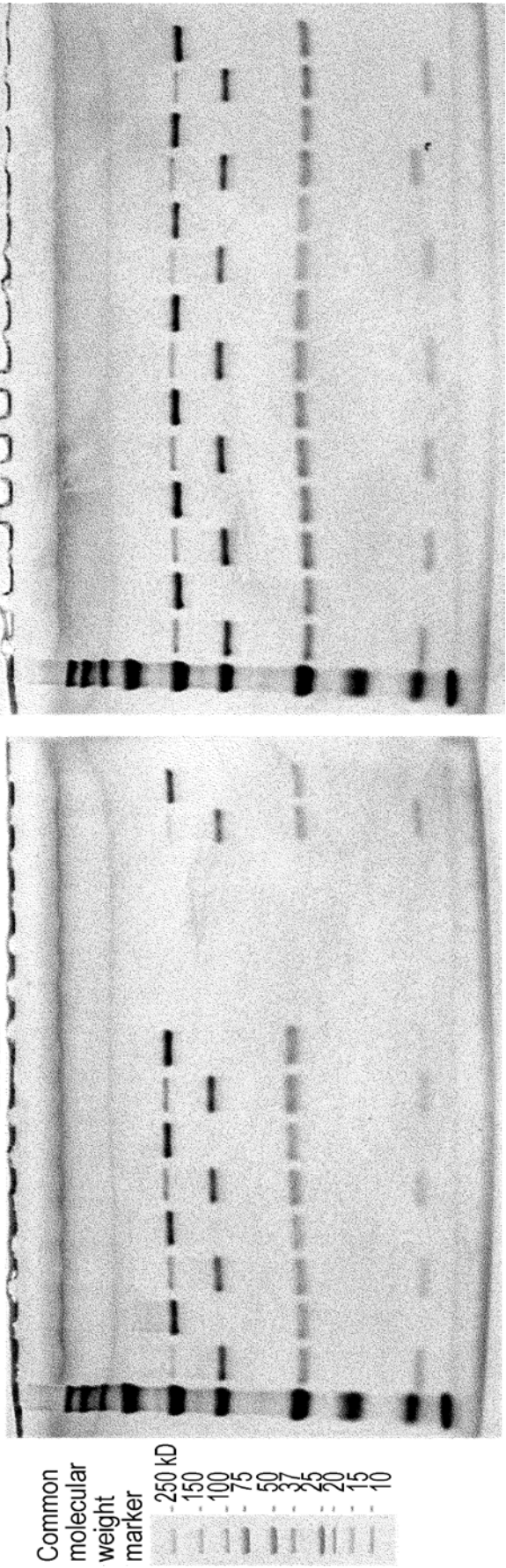


FIG. 22

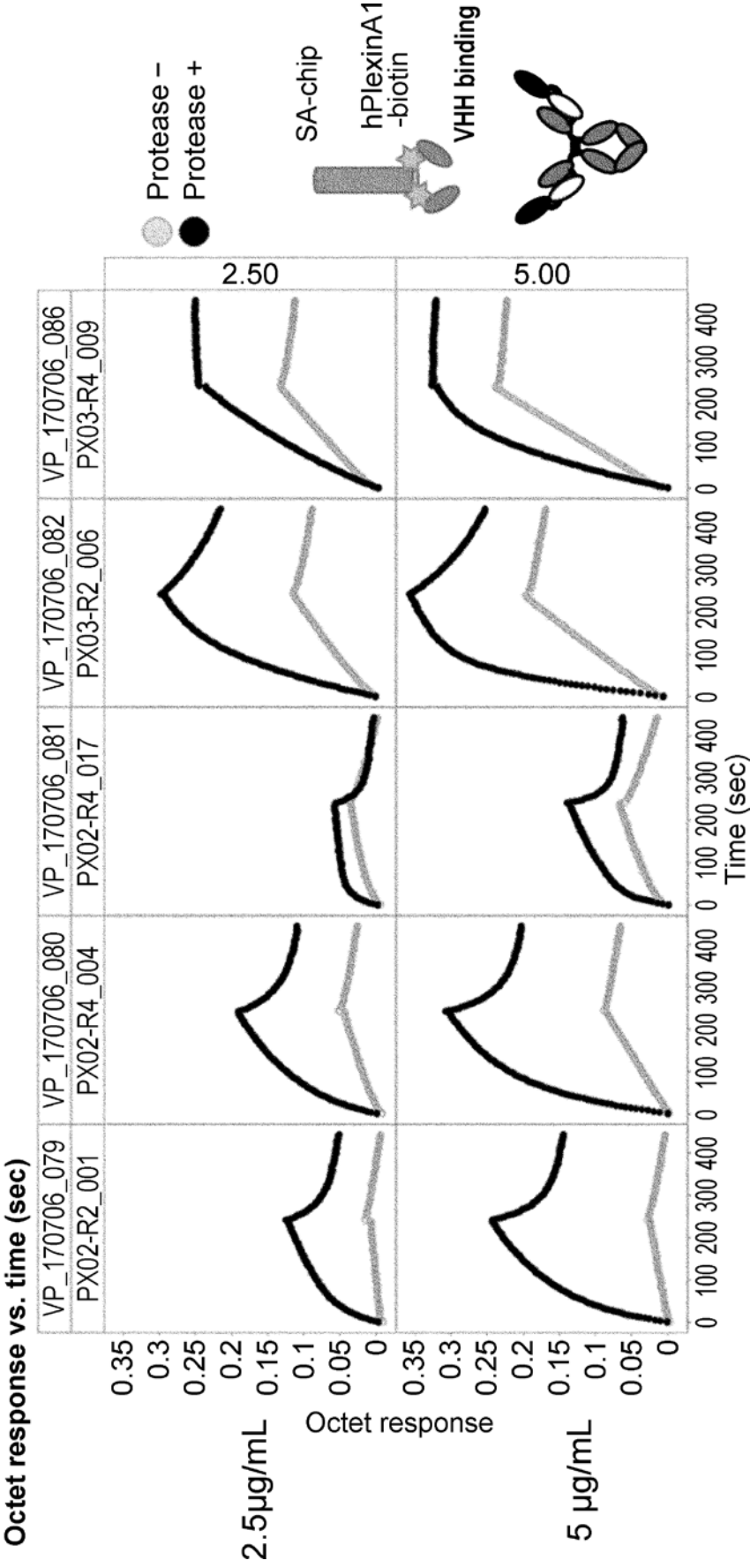


FIG. 23

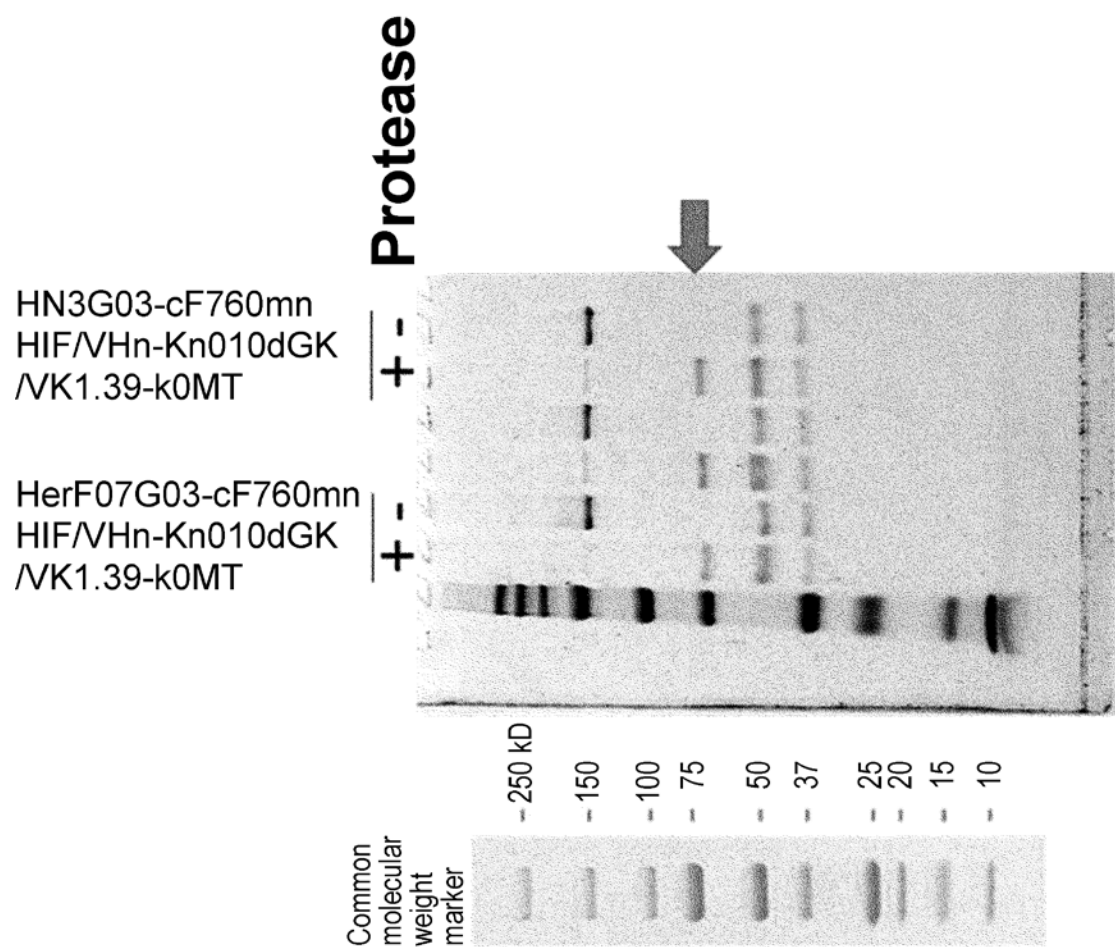


FIG. 24

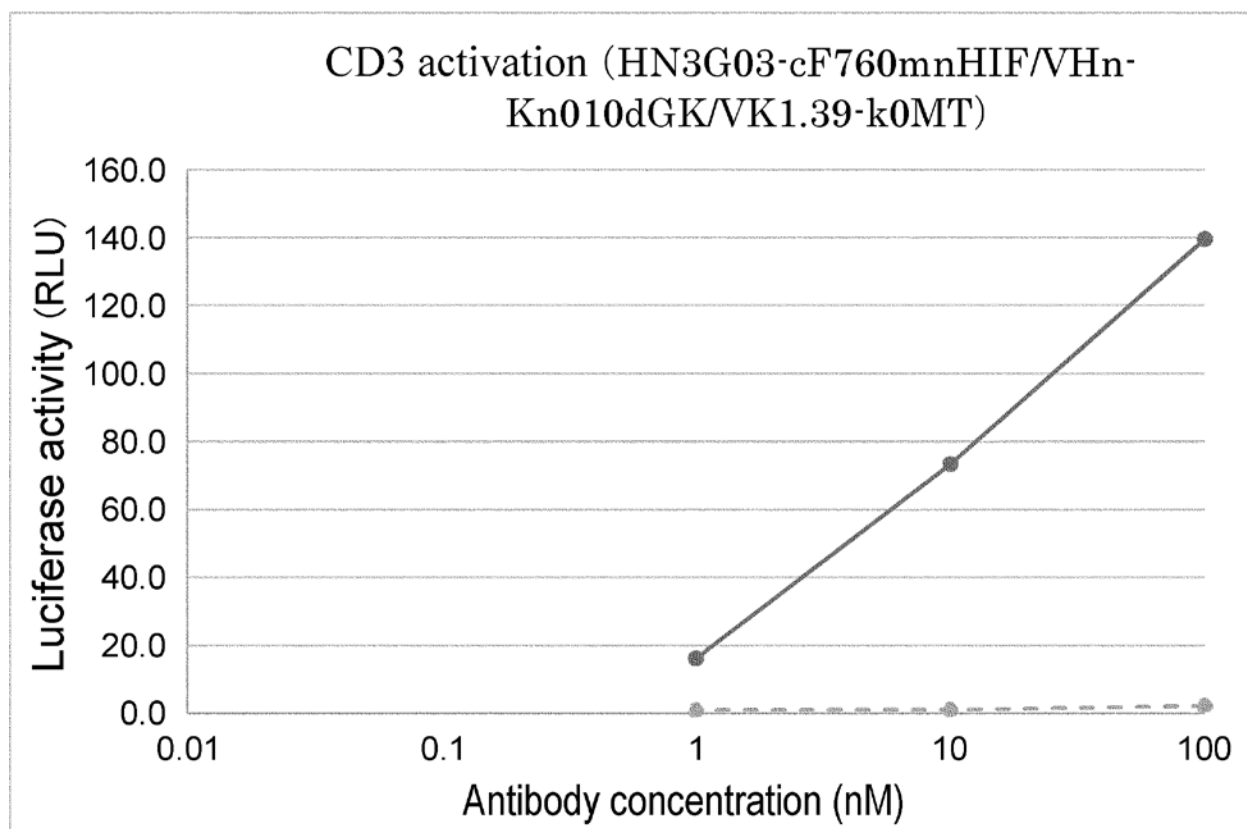


FIG. 25

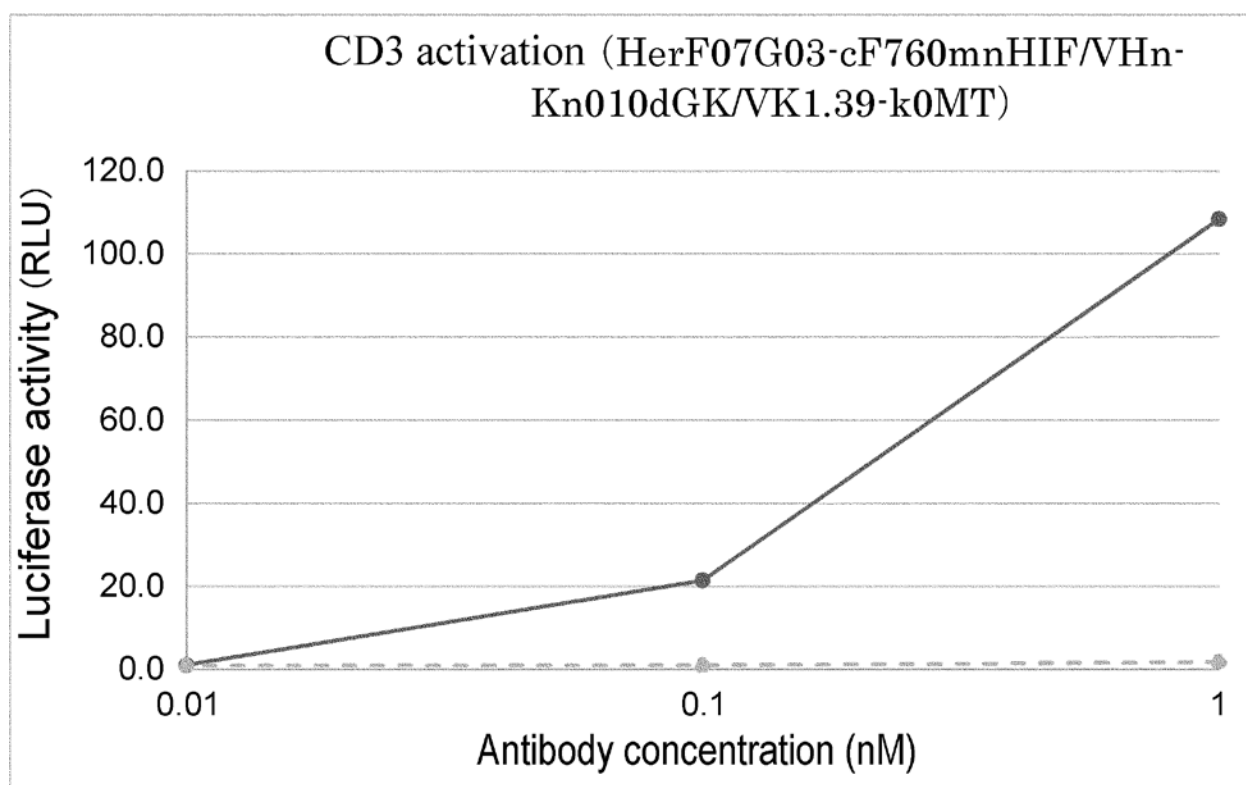


FIG. 26

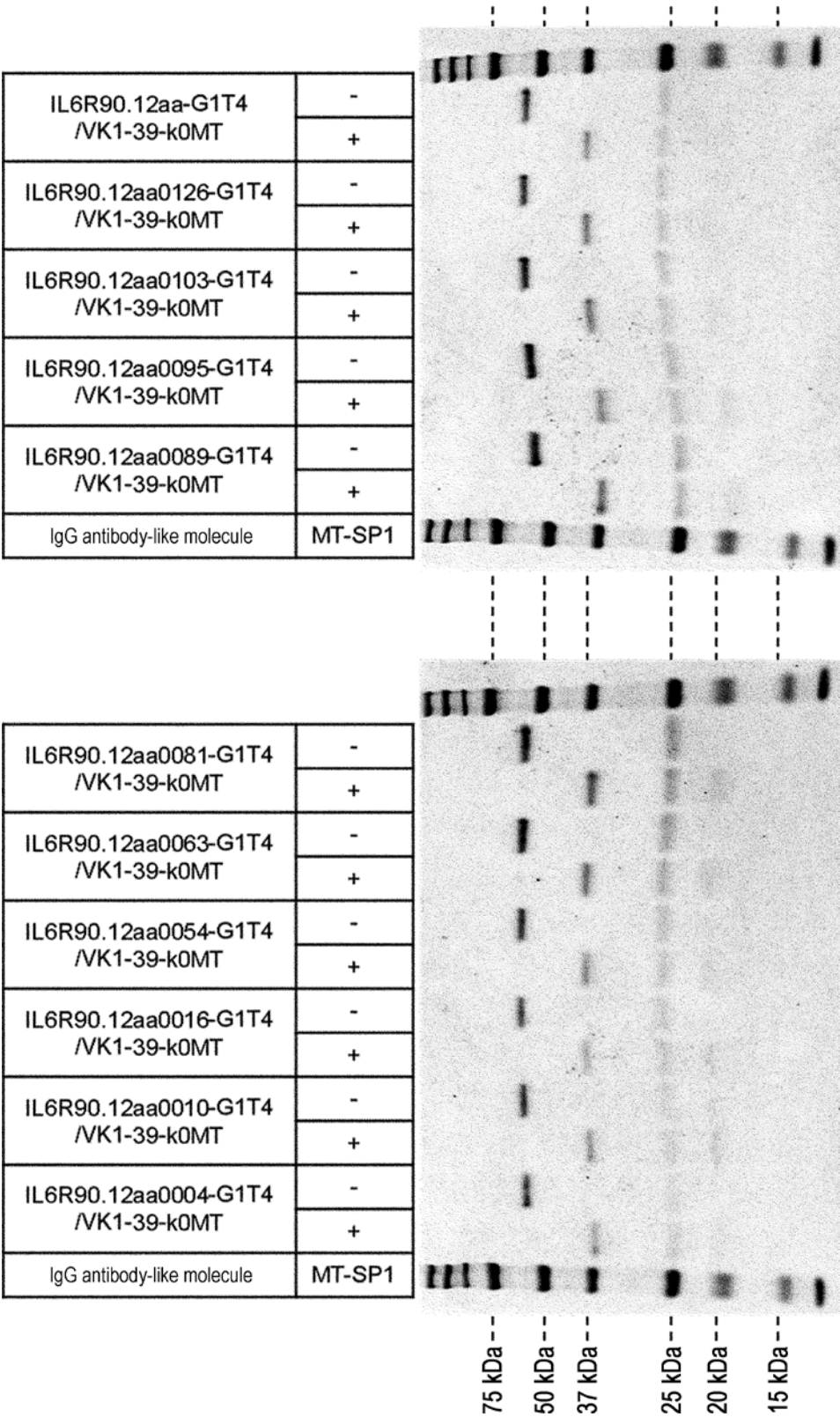


FIG. 27

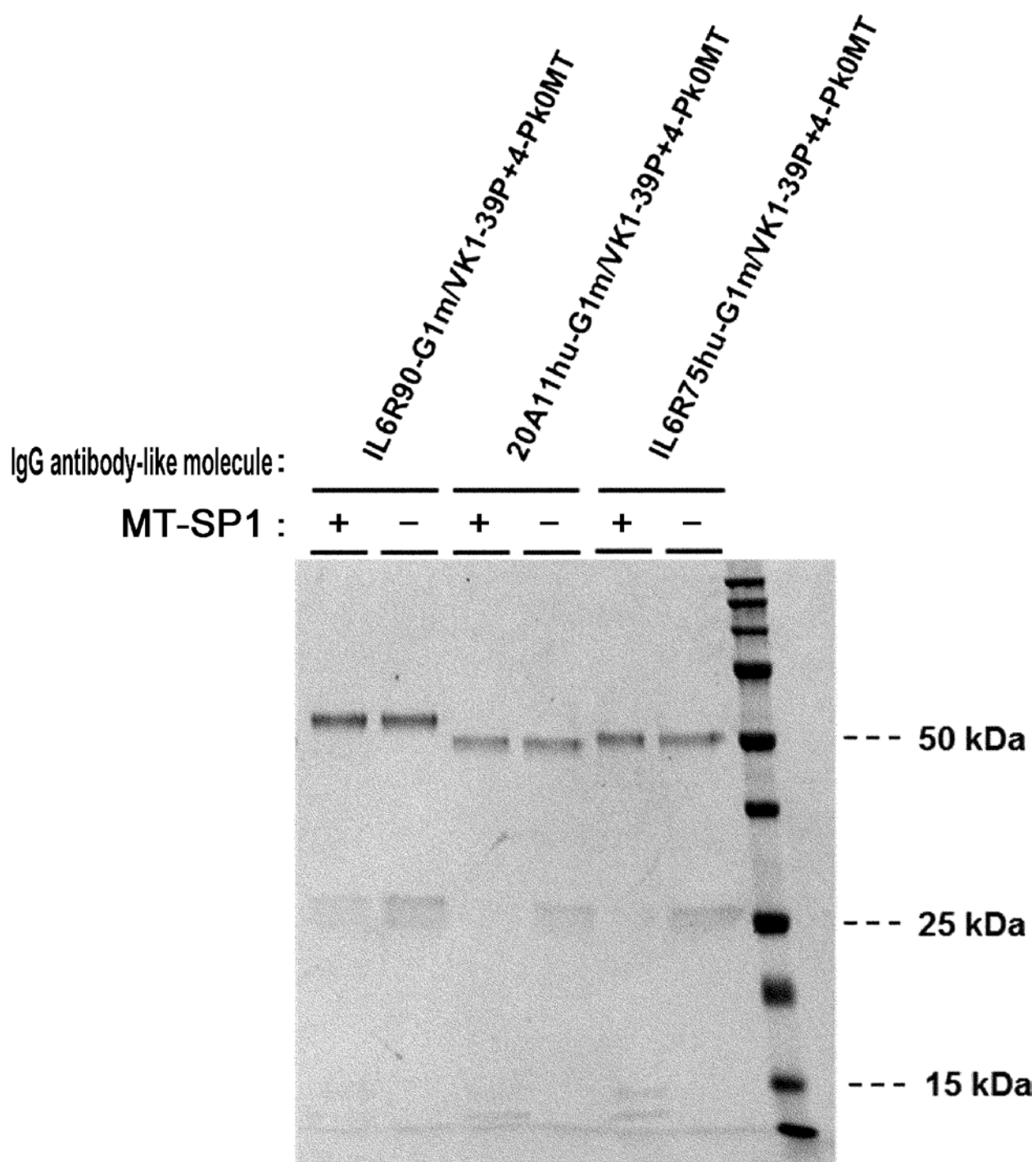


FIG. 28

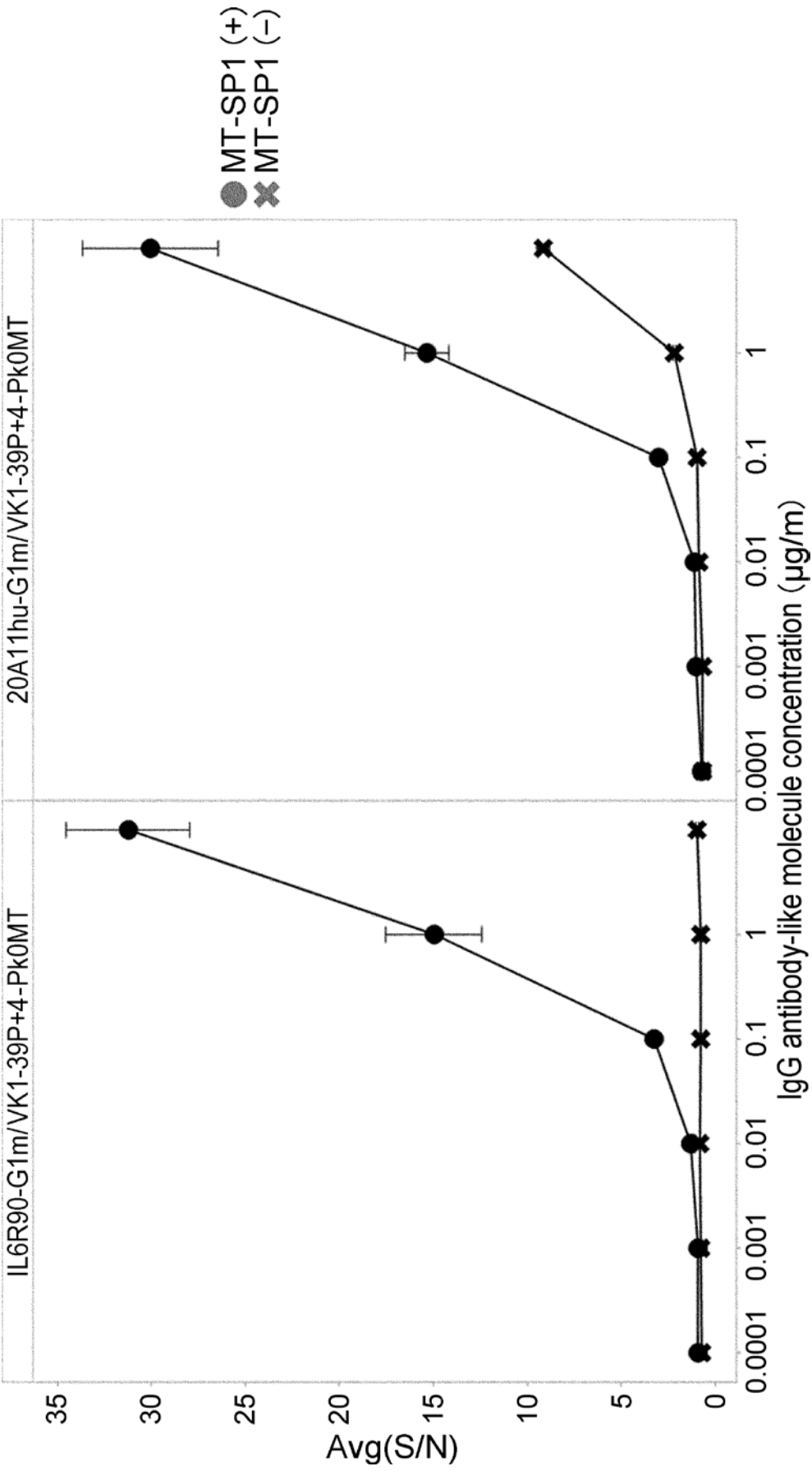
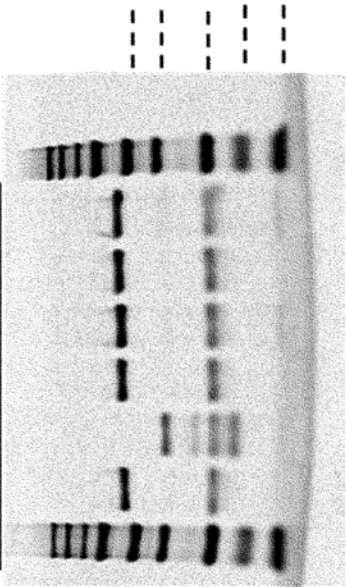
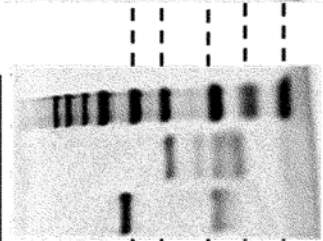


FIG. 29

6R90EIVHEG4SMP9G4S- 6R90EICHEG4SMP9G4SG1m	Tris	MMP-9	500 nM
			0 nM
6R90EIVHEG4SMP2MP9G4S- 6R90EICHEG4SMP2MP9G4SG1m	Tris	MMP-9	500 nM
			0 nM
6R90EIVHEG4SMP2.2G4S- 6R90EICHEG4SMP2.2G4SG1m	Tris	MMP-2	500 nM
			0 nM
IgG antibody-like molecule	Buffer	Protease	



IgG antibody-like molecule	Buffer	Protease	
6R90EIVHEG4SMP2MP9G4S- 6R90EICHEG4SMP2MP9G4SG1m	Tris	MMP-2	500 nM
			0 nM



50 kDa
25 kDa
20 kDa
15 kDa
10 kDa

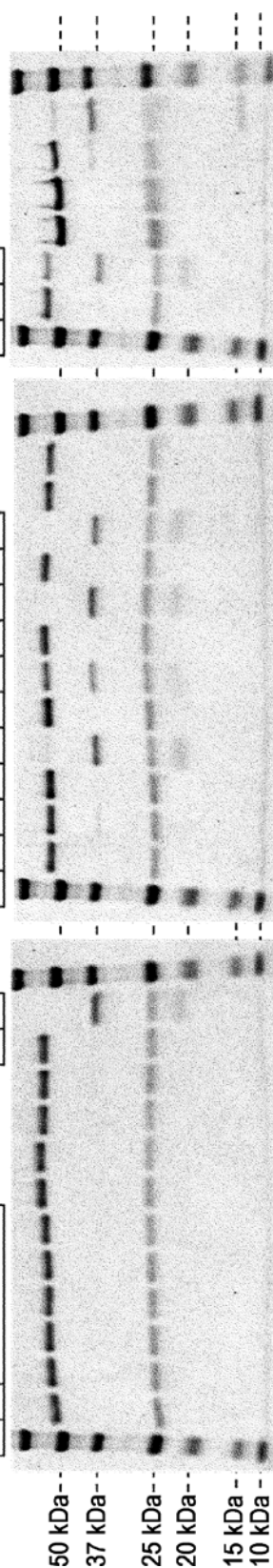
FIG. 30A

6R90EIMHEMP13- 6R90EICHEMP13G1m/VK1-39- kOMT	assay buffer	MMP-13	50 nM 0 nM
IgG antibody-like molecule	Buffer	Protease	

6R90EIVHEMP7.2- 6R90EICHEMP7.2G1m/VK1- 39-kOMT	assay buffer	MMP-7	50 nM
			0 nM
6R90EIVHEMP7.1- 6R90EICHEMP7.1G1m/VK1- 39-kOMT		MMP-7	50 nM
			0 nM
6R90EIVHEMP2.4- 6R90EICHEMP2.4G1m/VK1- 39-kOMT		MMP-2	50 nM
			0 nM
6R90EIVHEMP2.3- 6R90EICHEMP2.3G1m/VK1- 39-kOMT		MMP-2	50 nM
			0 nM
6R90EIVHEMP2.2- 6R90EICHEMP2.2G1m/VK1- 39-kOMT		MMP-2	50 nM
			0 nM
IgG antibody-like molecule	Buffer	Protease	

6R90EVHEMP2.1- 6R90EICHEMP2.1G1m/VK1- 39kOMT	assay buffer	MMP-2	50 nM
			0 nM

IL6R90-G1m/VK1-39-k0MT	assay buffer	MMP-13	50 nM
		MMP-9	
		MMP-7	
		MMP-2	
			0 nM
IgG antibody-like molecule	Buffer	Protease	



assay buffer : MMP Activity Assay Kit (Fluorometric - Green) (ab112146), Component C: Assay Buffer

FIG. 30B

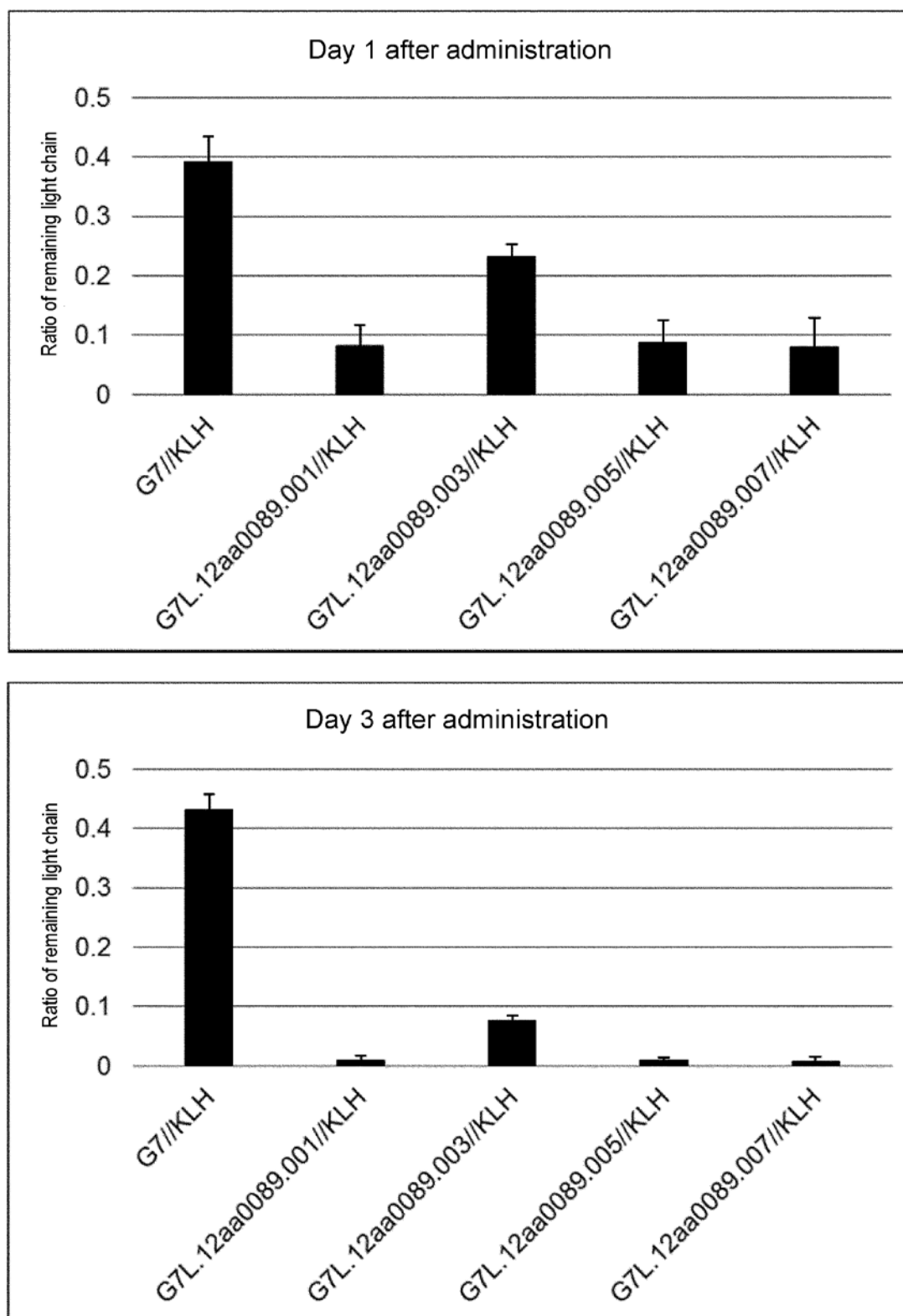


FIG. 31