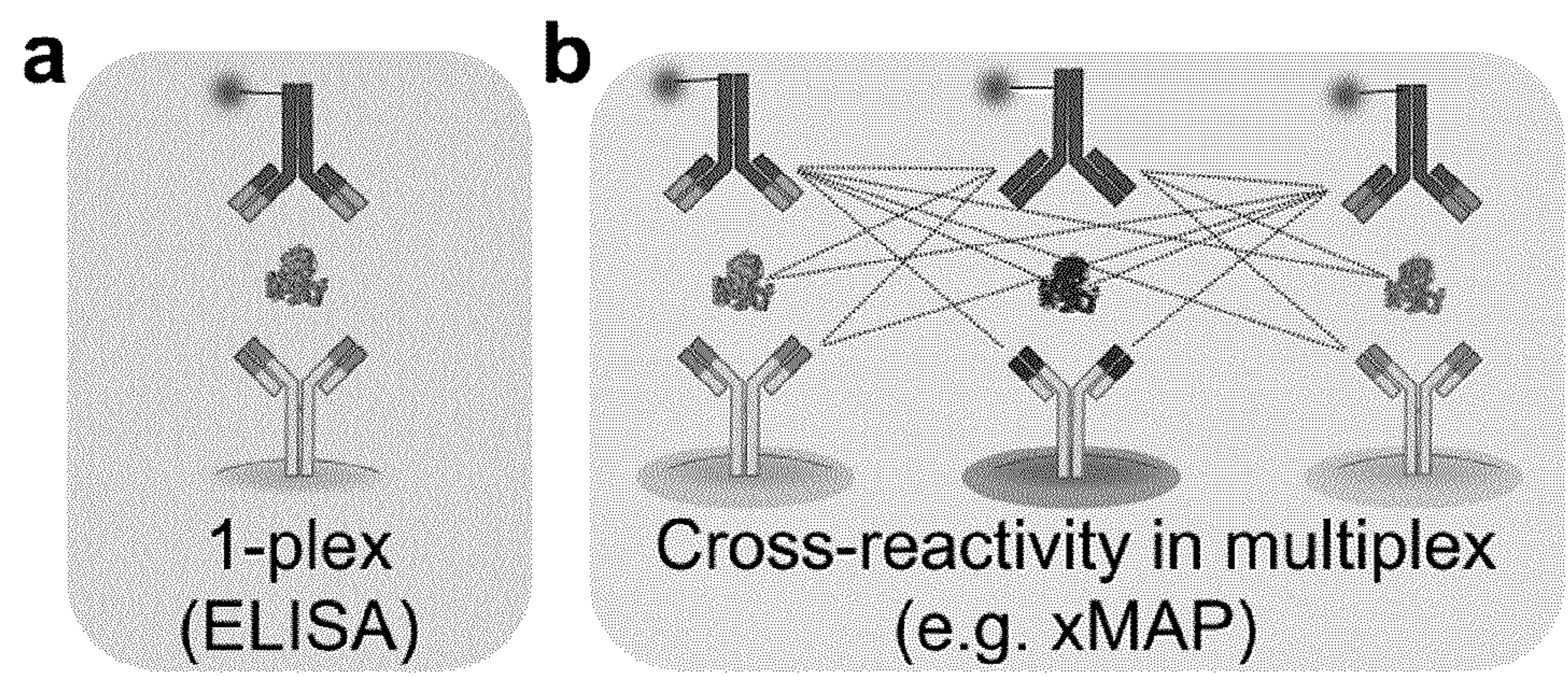


FIG. 1



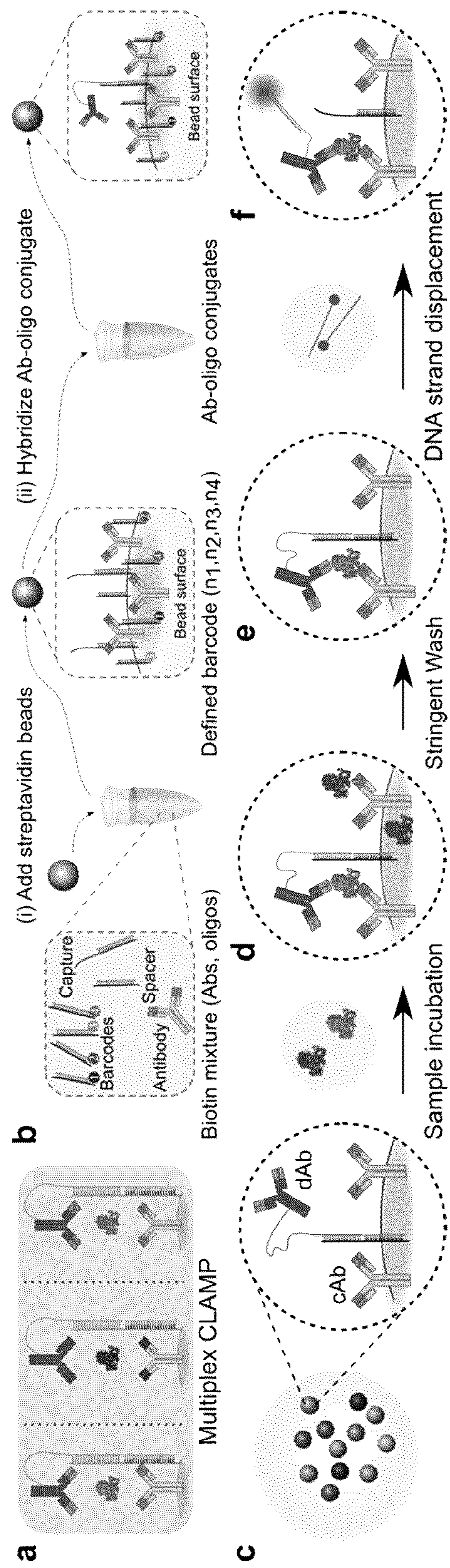


FIG. 2

FIG. 3

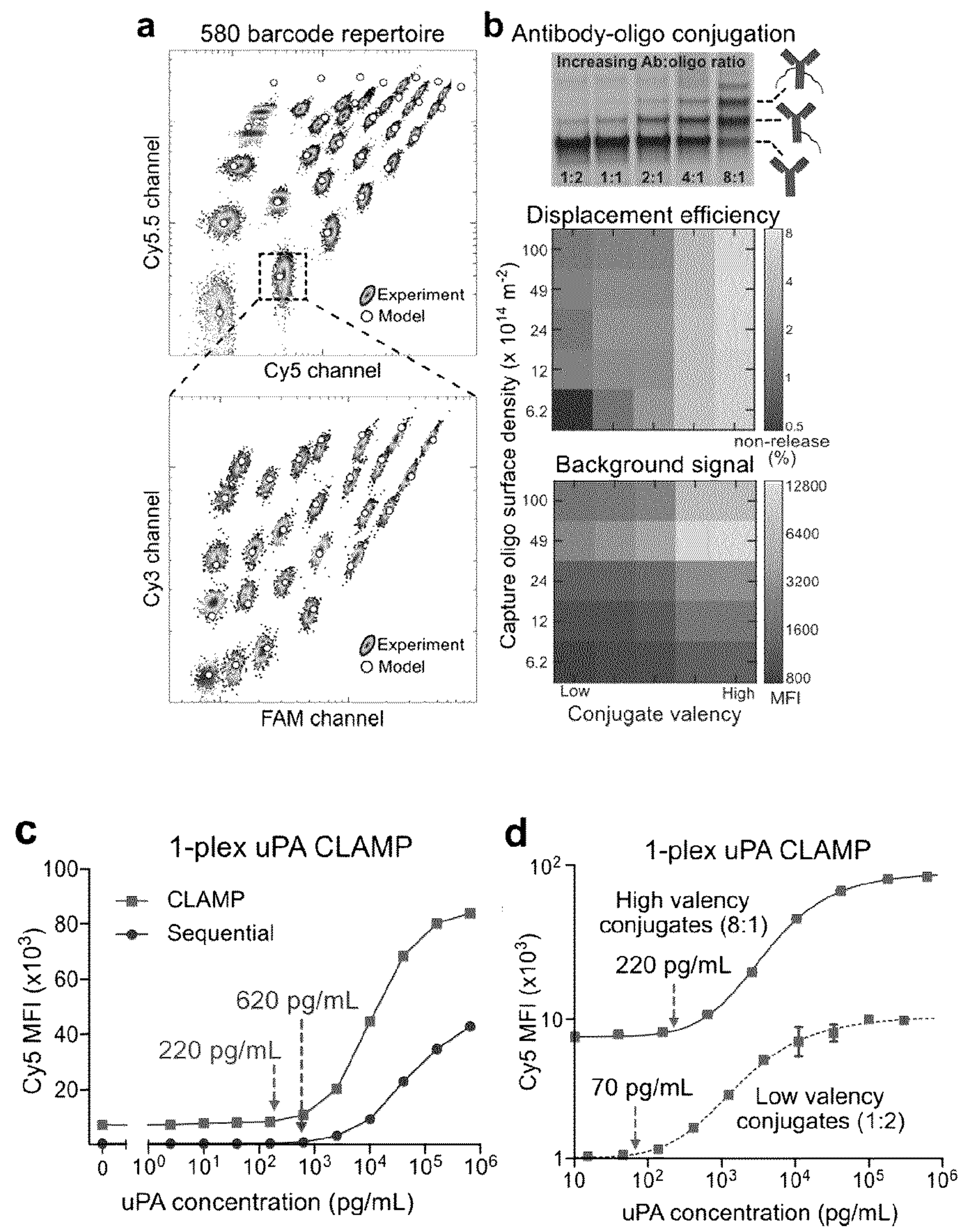


FIG. 3 continued

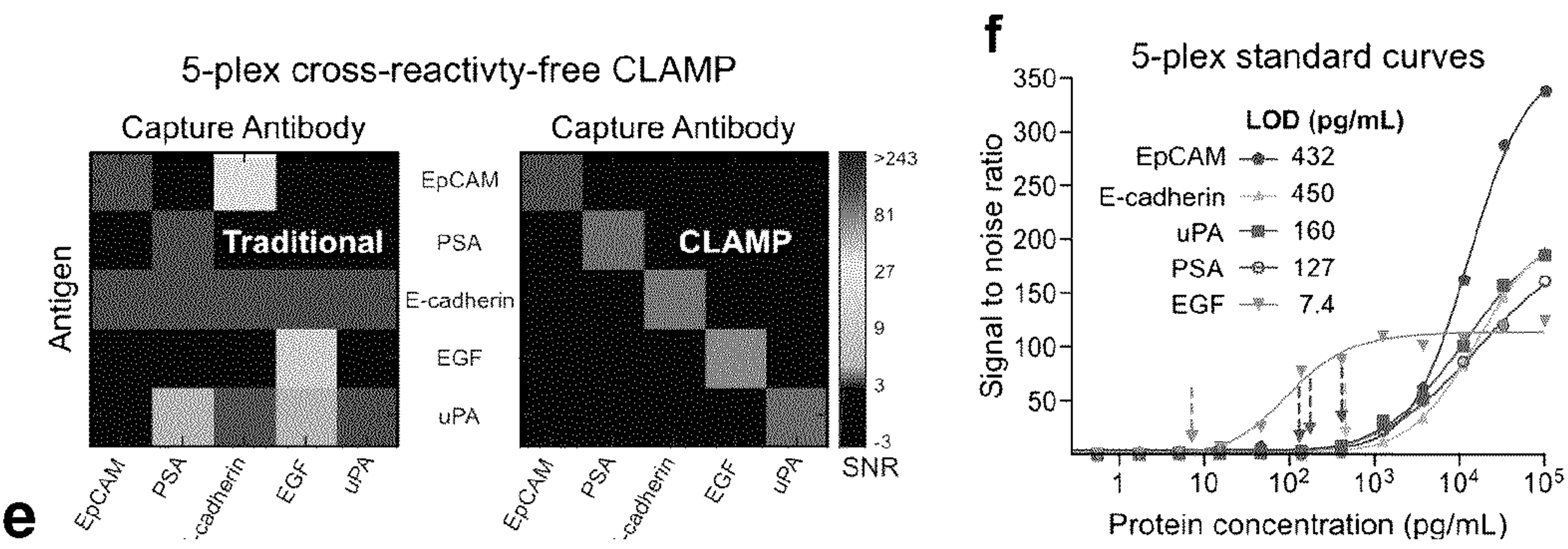


FIG. 4

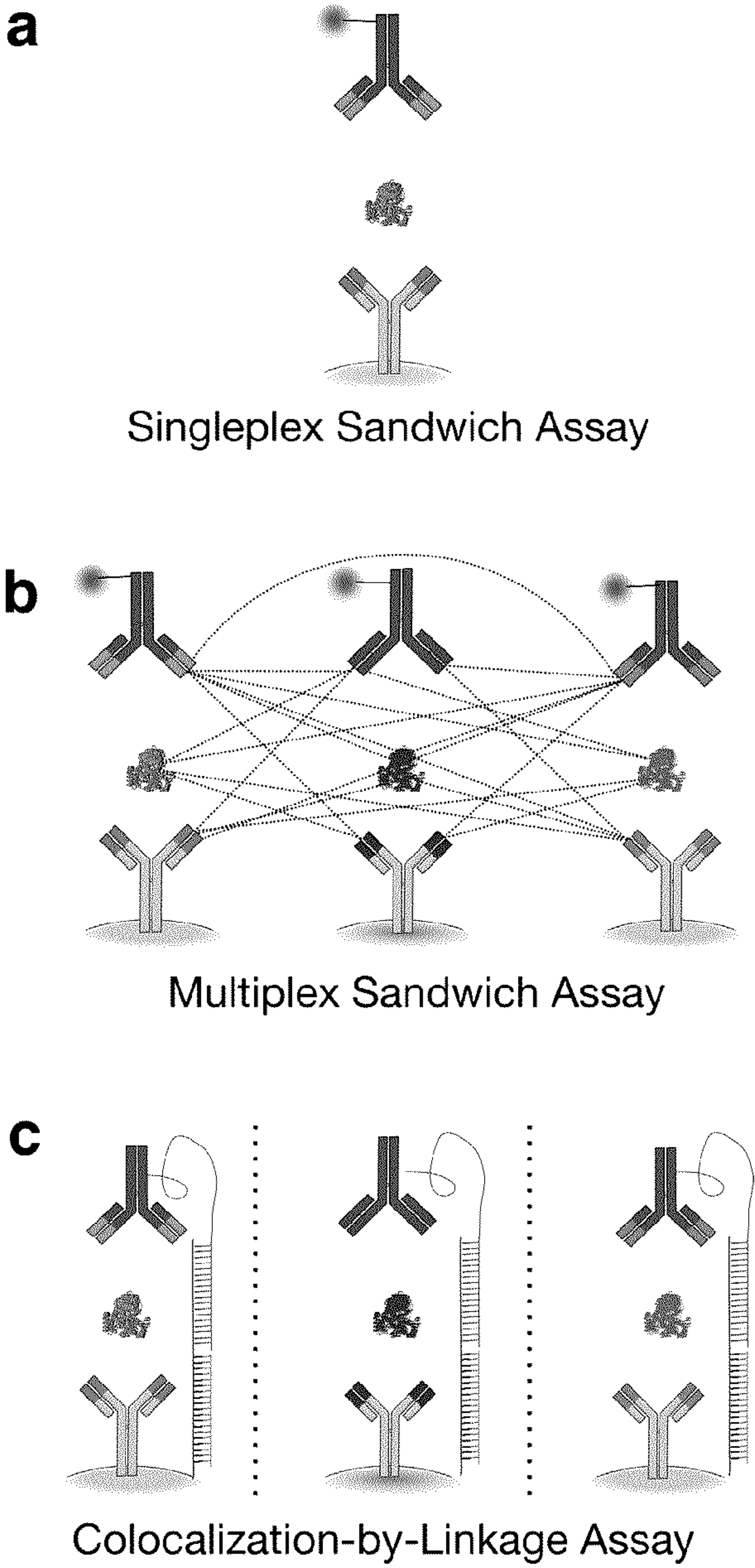


FIG 5.

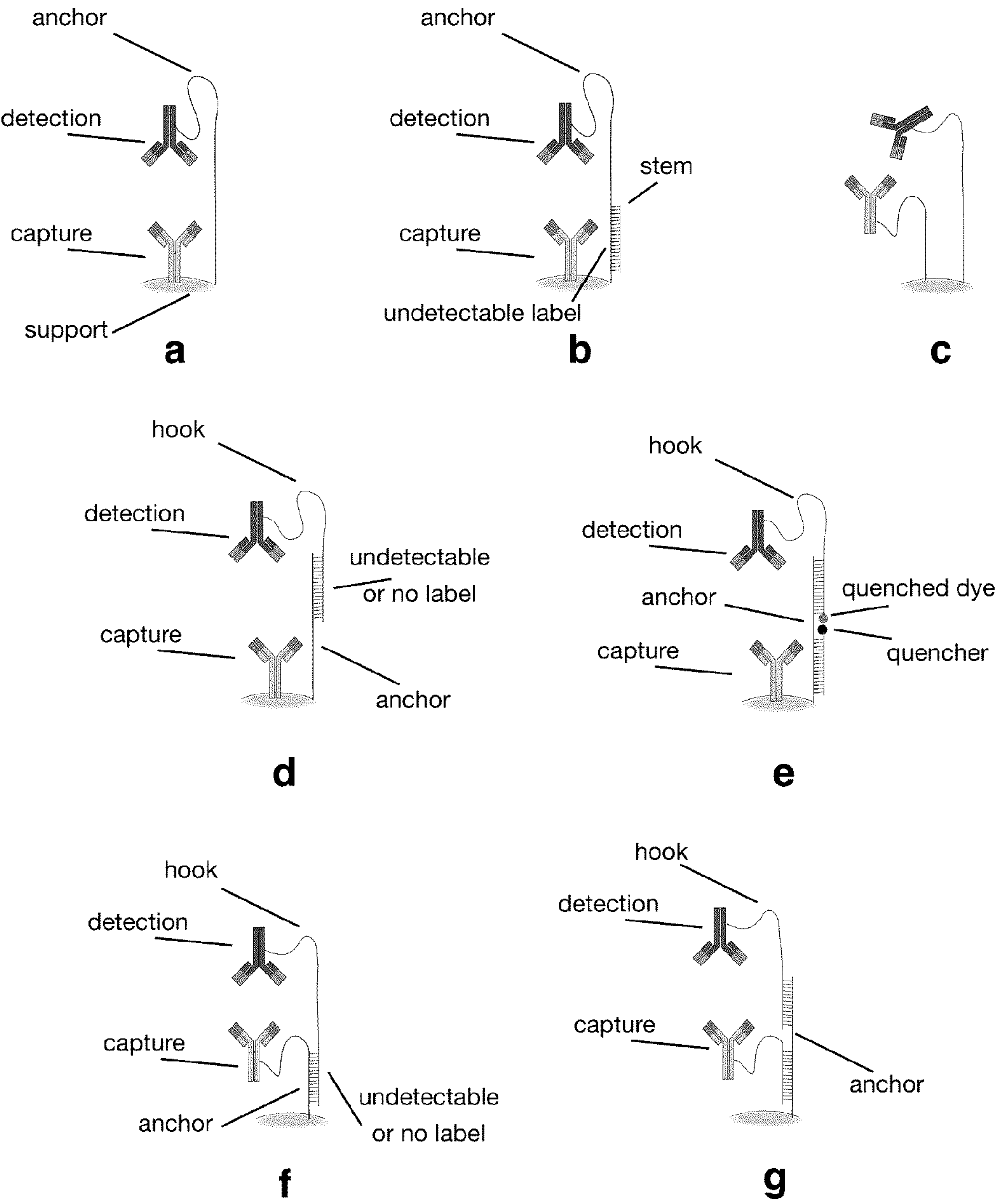


FIG 6.

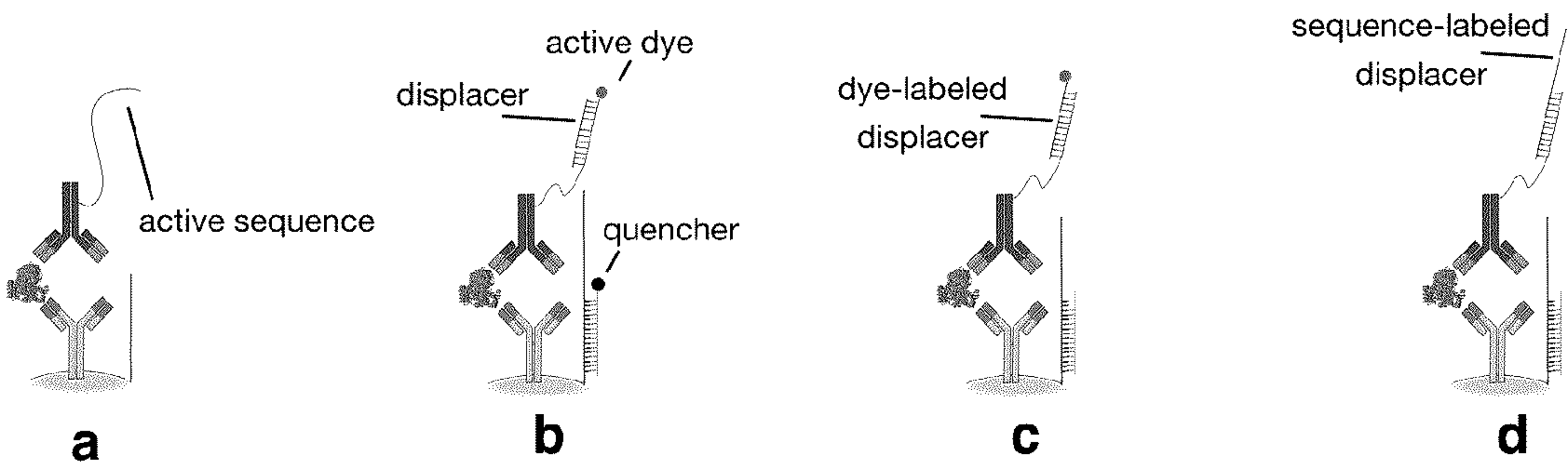


FIG. 7

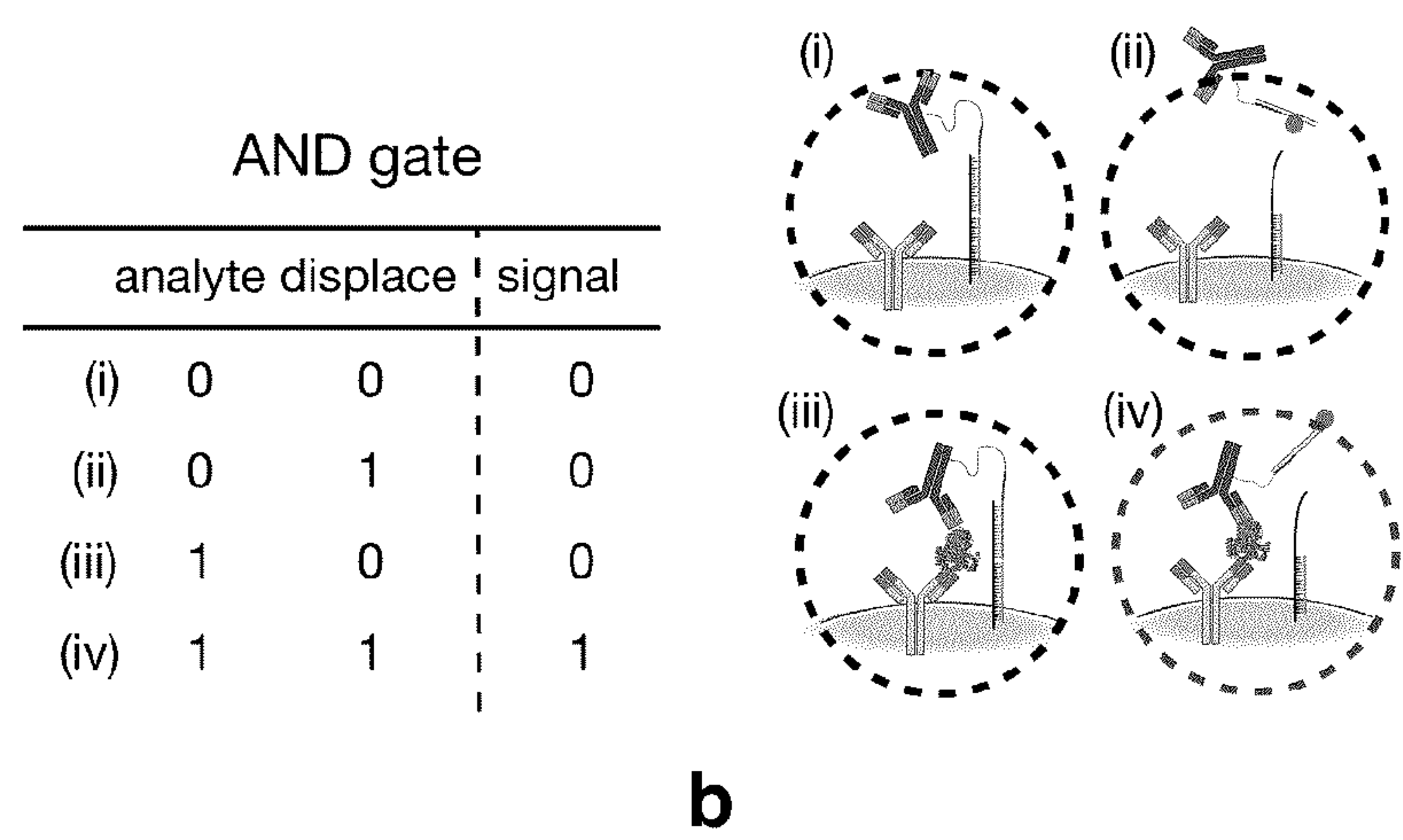
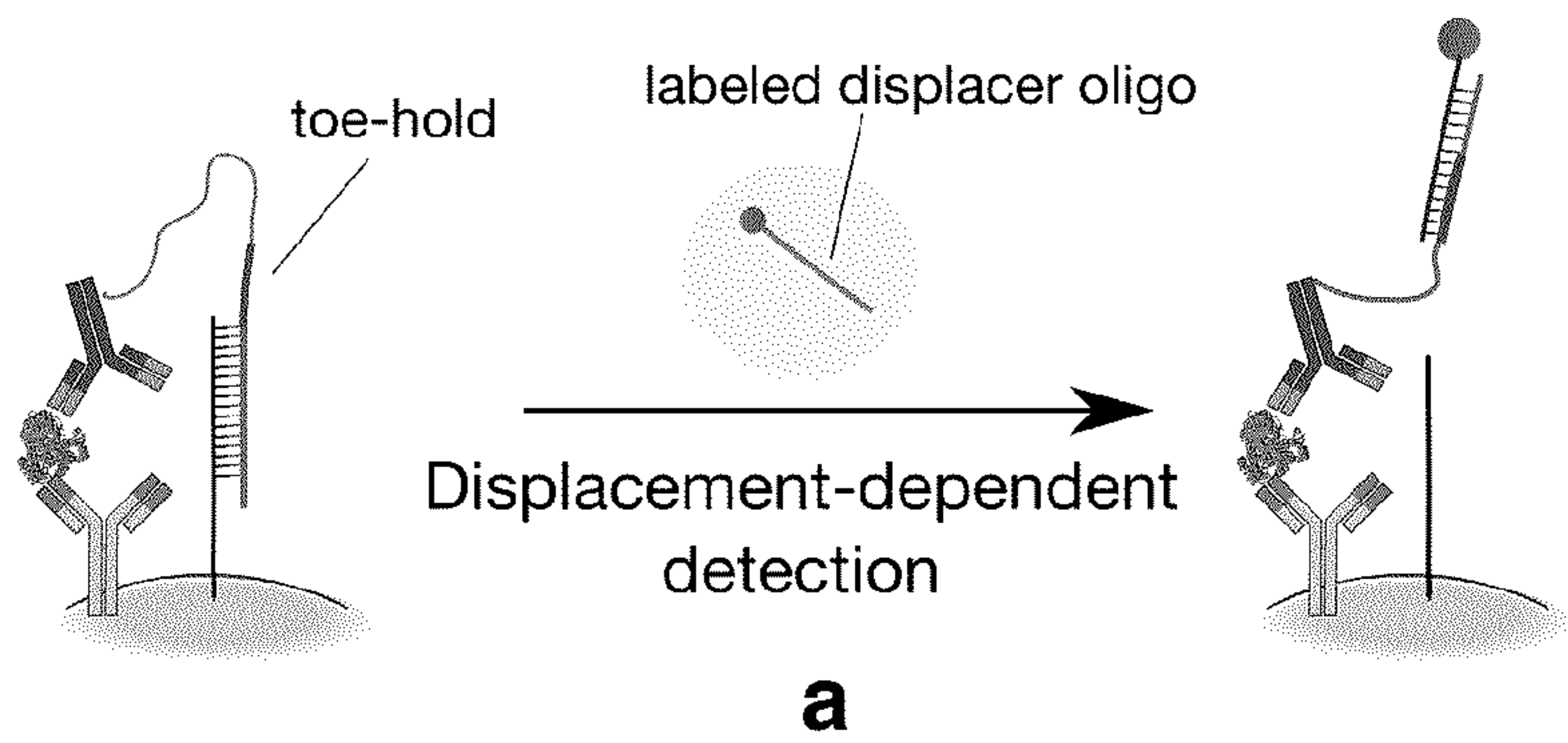


FIG. 8

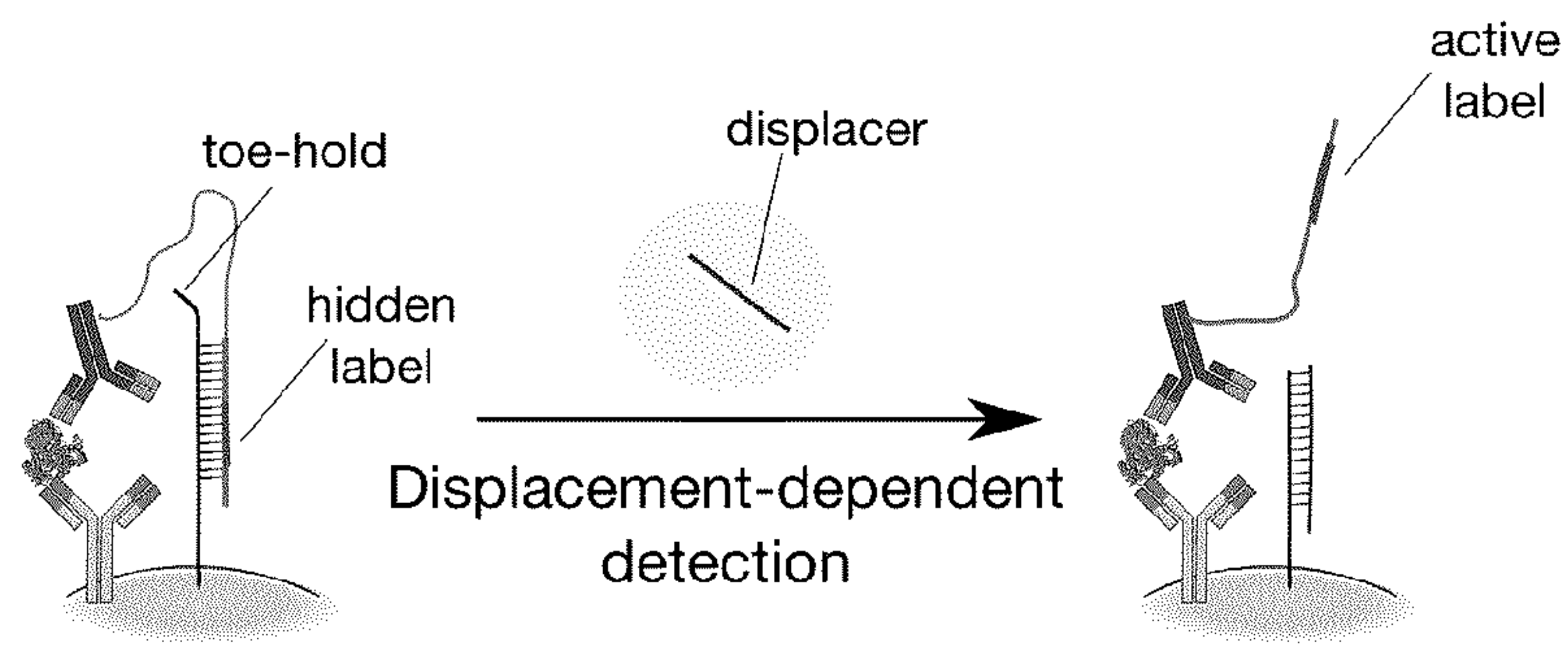


FIG. 9

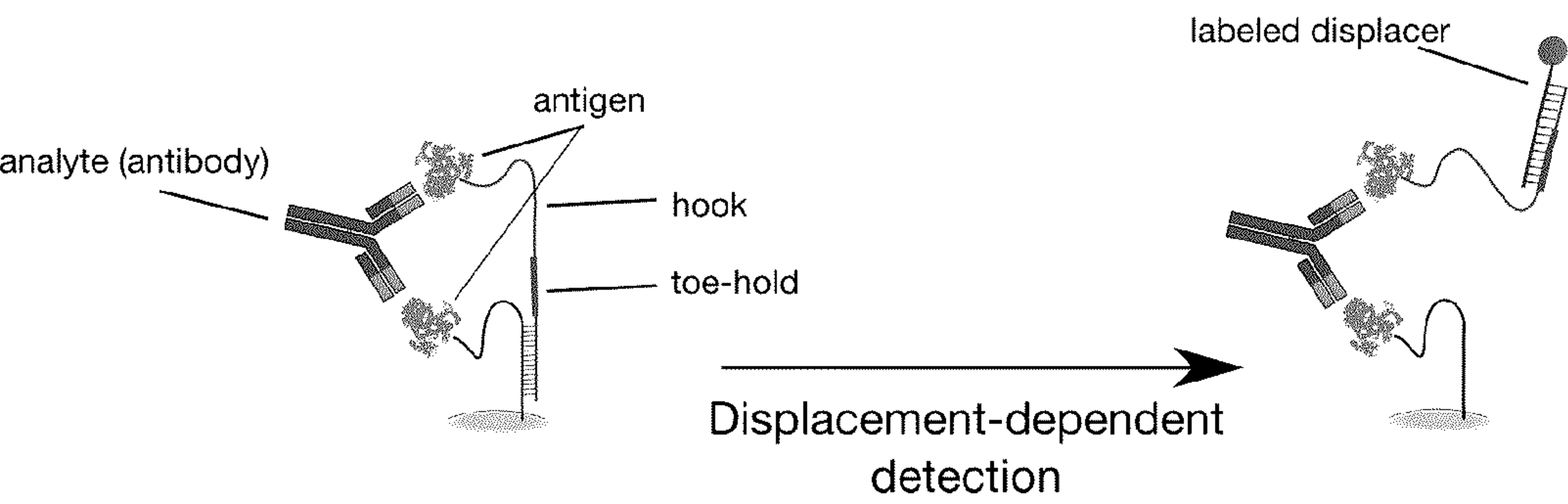


FIG. 10

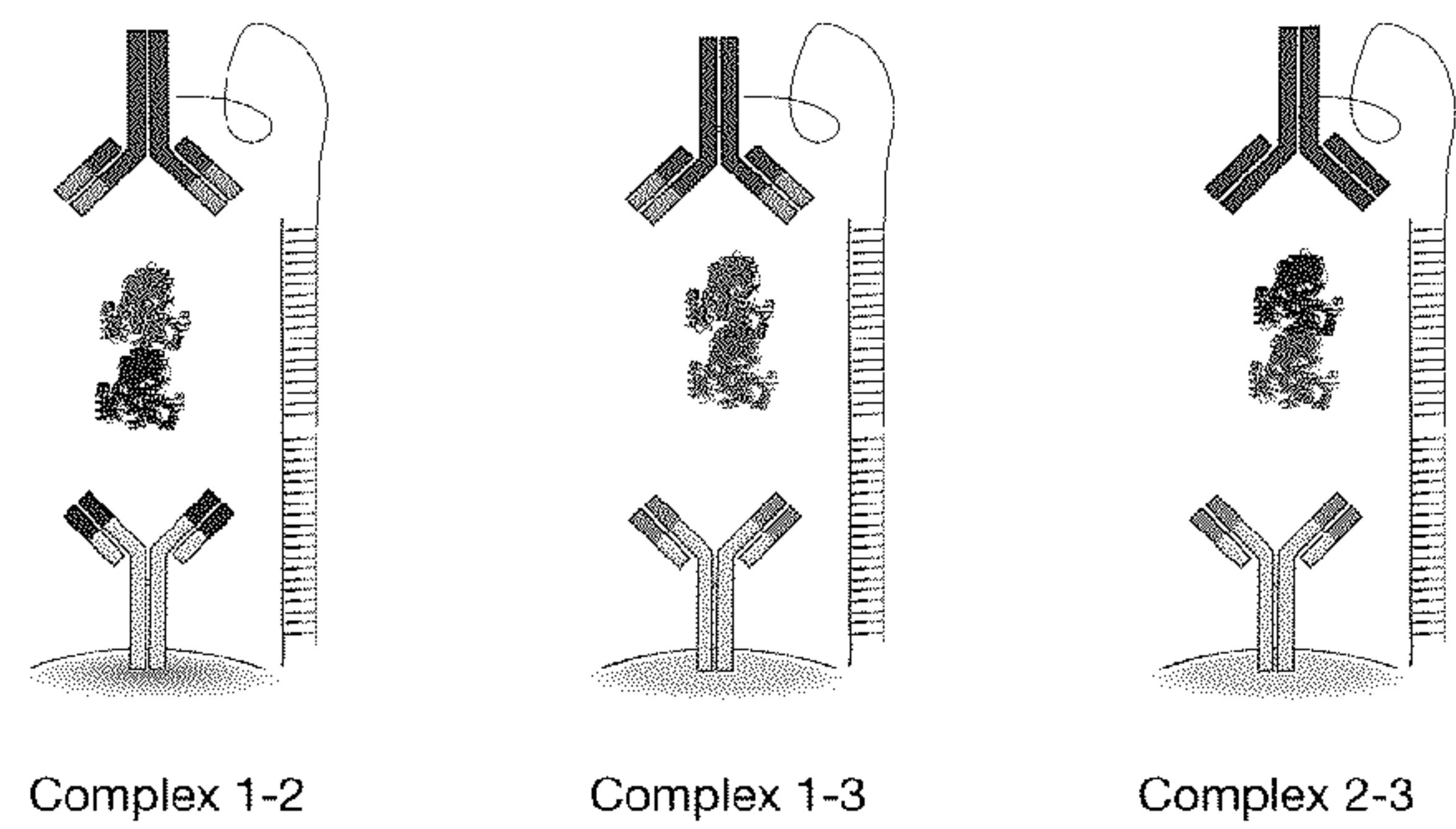


FIG. 11

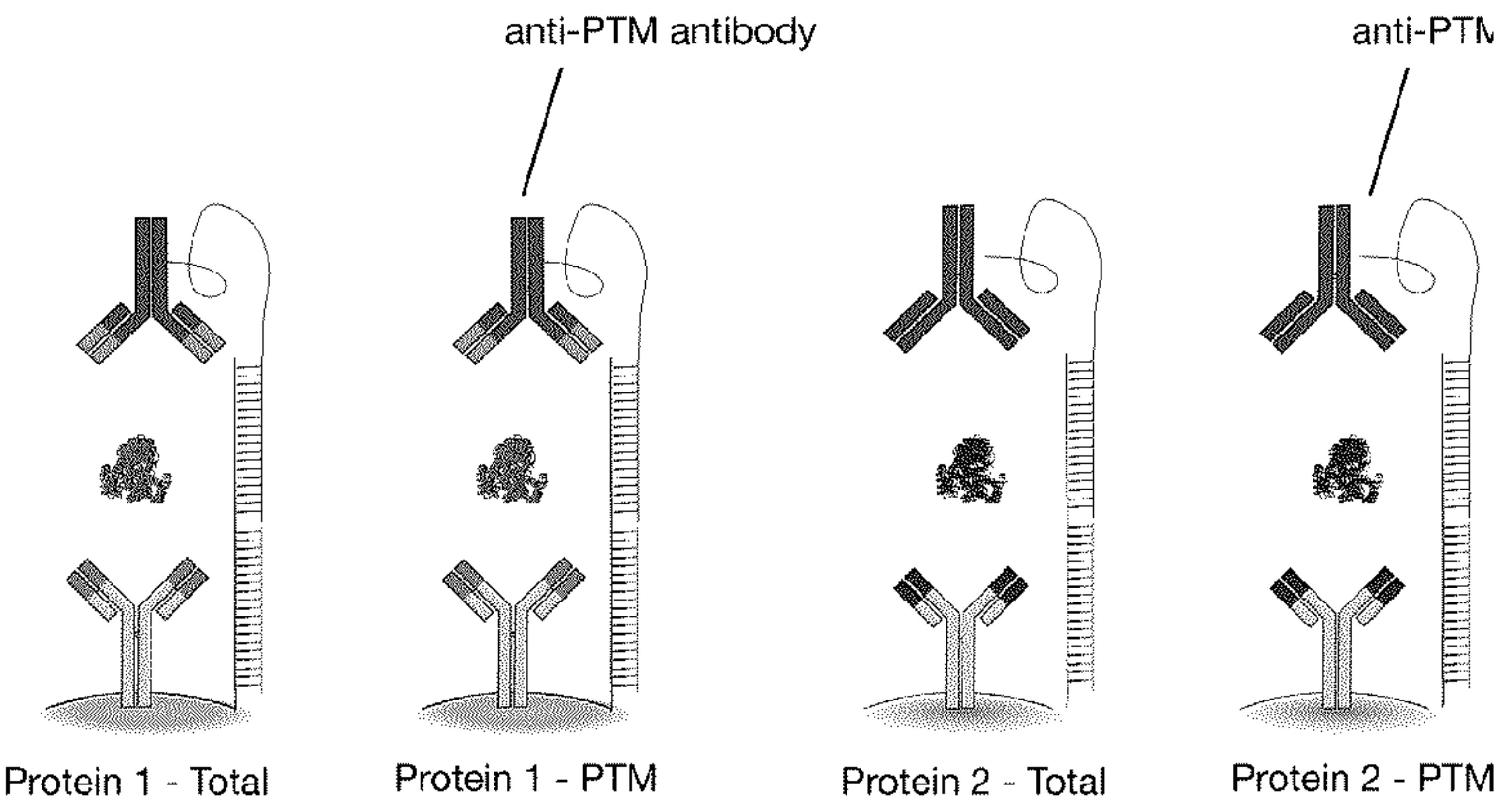


FIG. 12

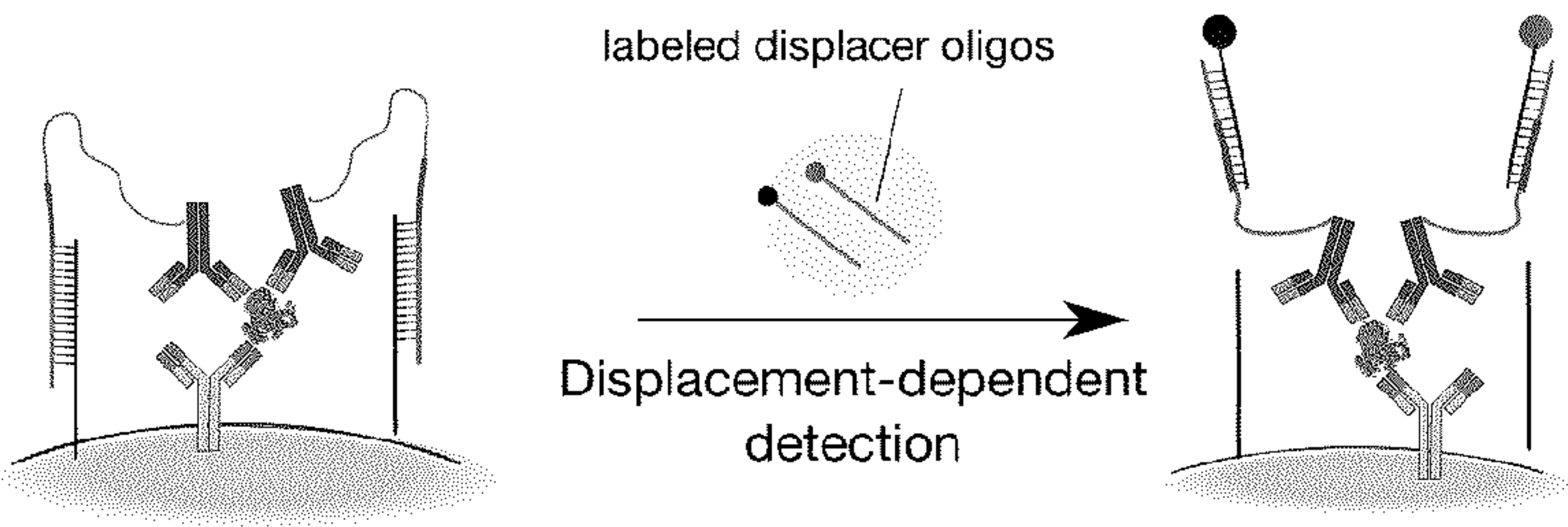


FIG. 13

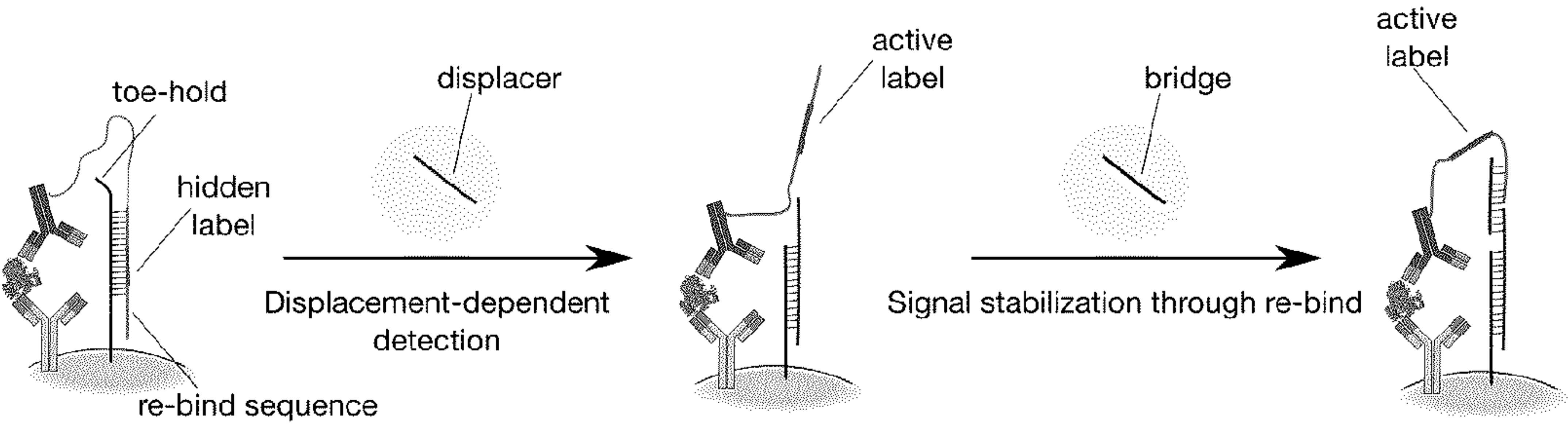
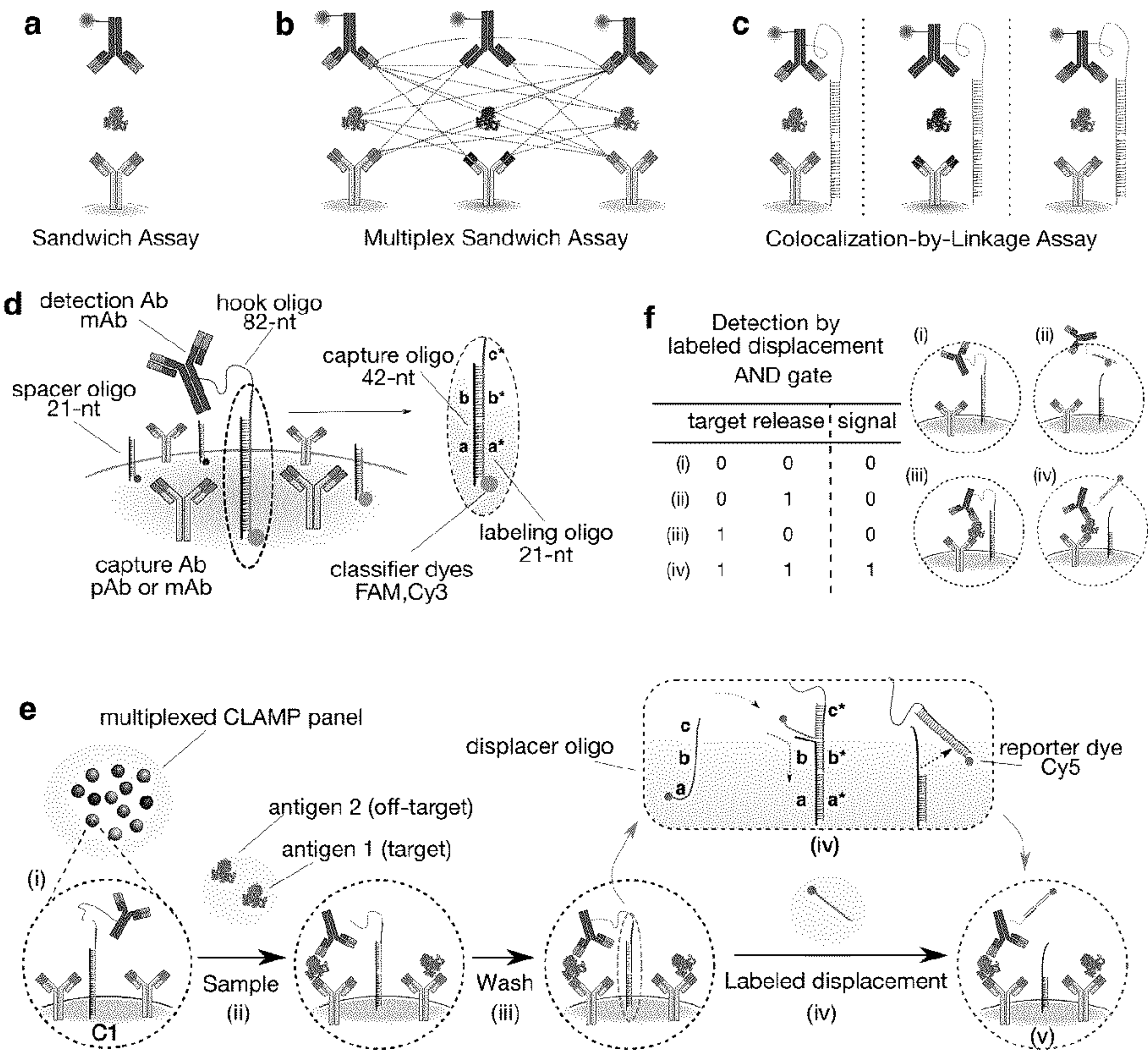


FIG. 14



12/18

FIG. 15

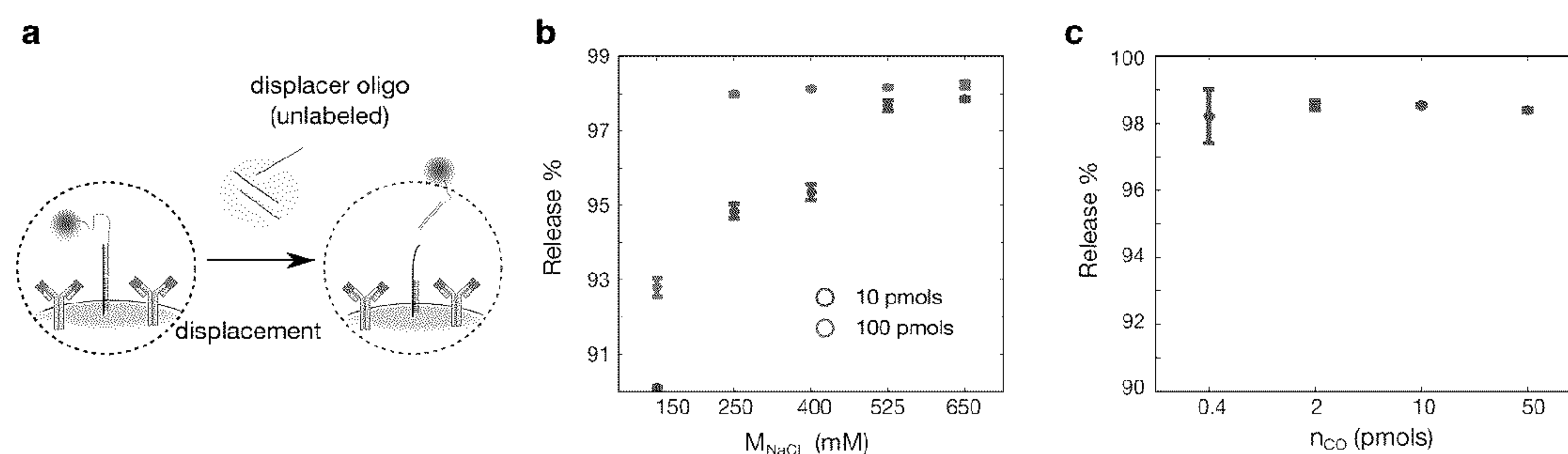


FIG. 16

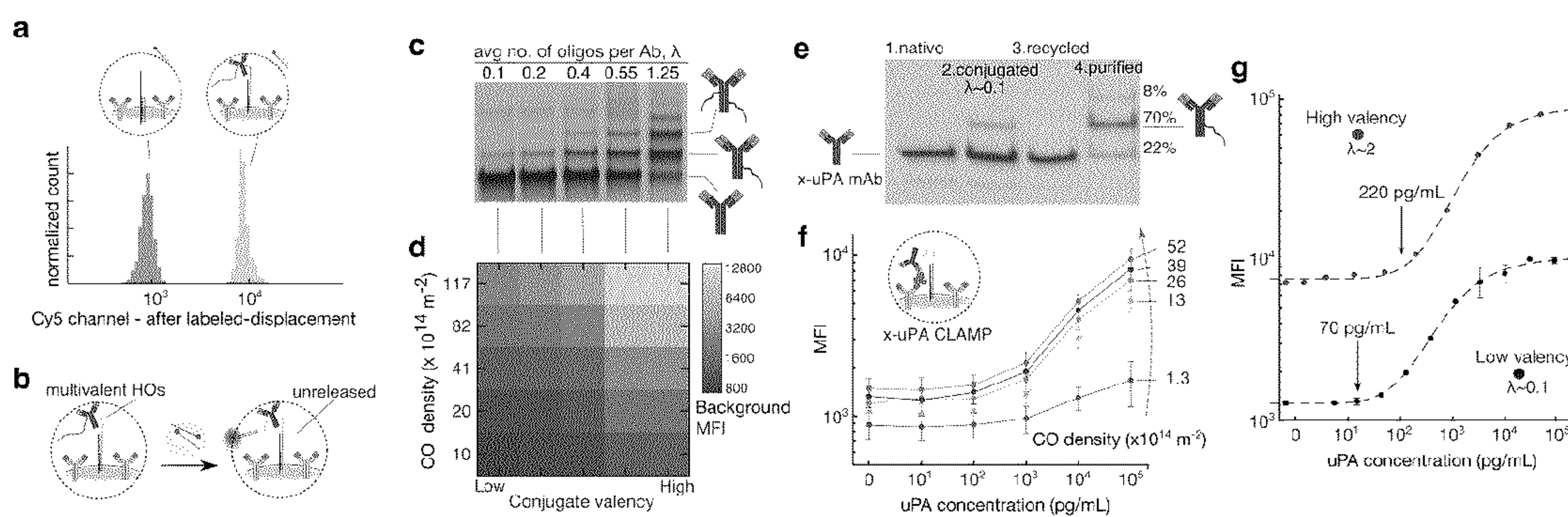


FIG. 17

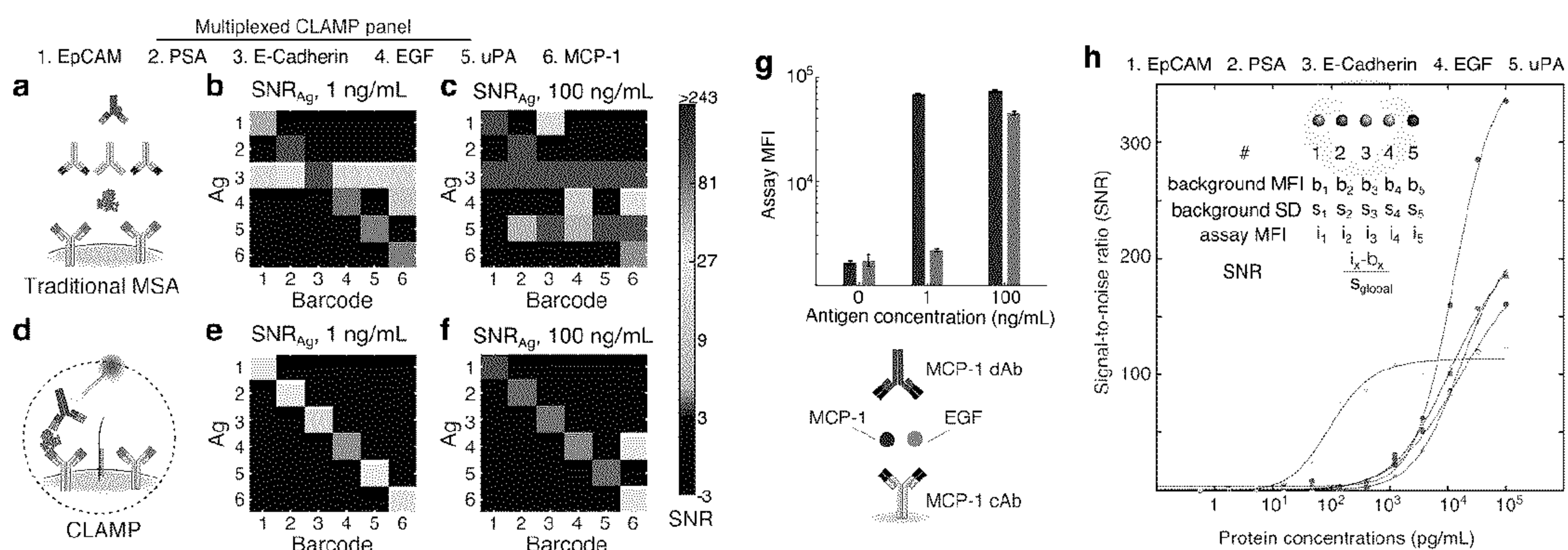


FIG. 18

MP	Strand	Modification	Sequence
CLAMP	Capture Oligo	Biotin	5'-Biotin- <u>TTTTTTTTTGTGGCGGCGGTGATTGGTTATTGAGAGTTTATG</u>
	Spacer Oligo	Biotin	5'-Biotin- <u>TTTTTTTTTGTGGCGGCGGTG</u>
	Encoder Oligo		5'- <u>CACCGCCGCCACAAAAAAA</u>
	Encoder Oligo (FAM)	FAM	5'- <u>CACCGCCGCCACAAAAAAA</u> -FAM
	Encoder Oligo (Cy3)	Cy3	5'- <u>CACCGCCGCCACAAAAAAA</u> -Cy3
	Hook Oligo	Thiol	5'-Thiol- <u>TTTTTTACTTTTCAACCACCACTCAACCATATTCAACTCATTCGCCATAAACTCATTGCCATAAACTCTCAATAACCAAT</u>
	Hook Oligo (Cy5)	Cy5	5'-Cy5- <u>TTTTTTACTTTTCAACCACCACTCAACCATATTCAACTCATTCGCCATAAACTCATTGCCATAAACTCTCAATAACCAAT</u>
	Displacer Oligo (Cy5)		5'- <u>ATTGGTTATTGAGAGTTTATGGCGAATGAG</u> -Cy5
	Displacer Oligo		5'- <u>ATTGGTTATTGAGAGTTTATGGCGAATGAG</u>
	Labeler Oligo		5'- <u>GTTGAGTGGTGGTTGATTGGTTGGGATTGA</u>
HOP-MPs	Capture Oligo (2)	Biotin	5'-Biotin- <u>TTTTTTTTTGTGGCGGCGGTGGTTGAGTGGTGGTGGTGGTTGATT</u>
	Displacer Oligo (2)		5'- <u>CTCGTCATAATGTAAACCGGGAATCAACACCAACCACCACTCAAC</u>

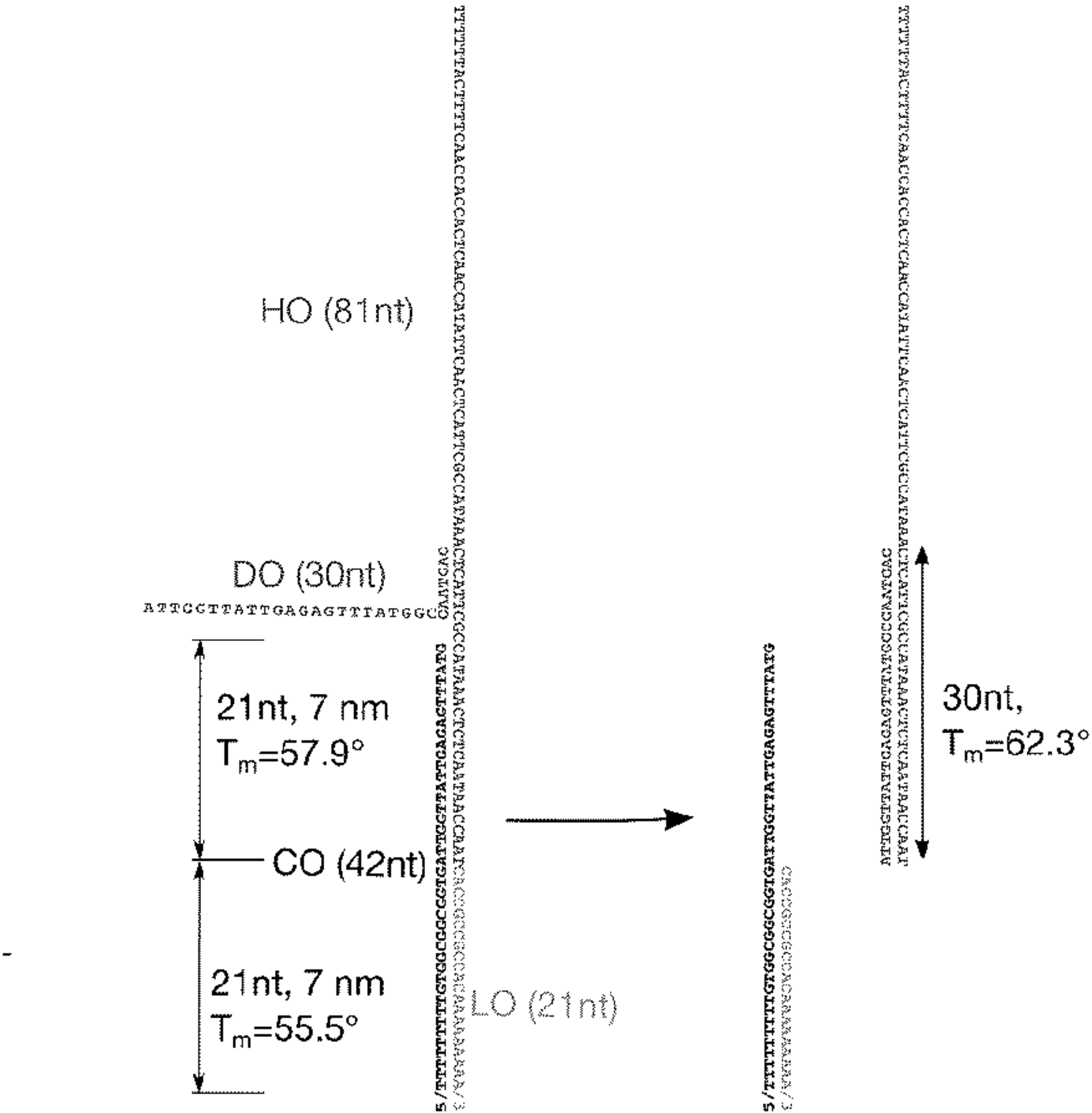


FIG. 19

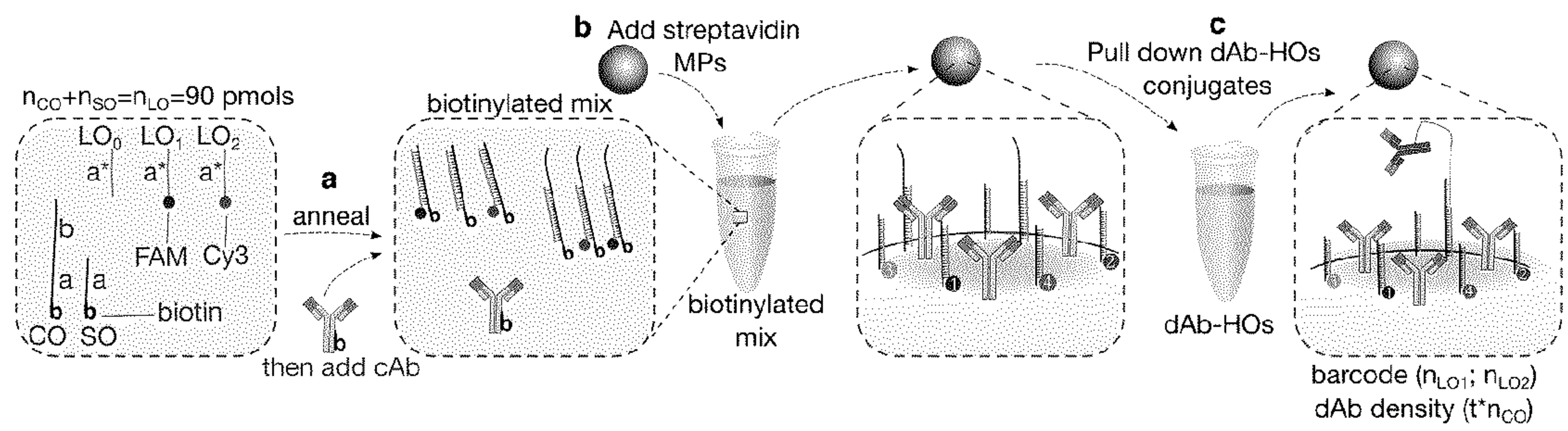


FIG. 20

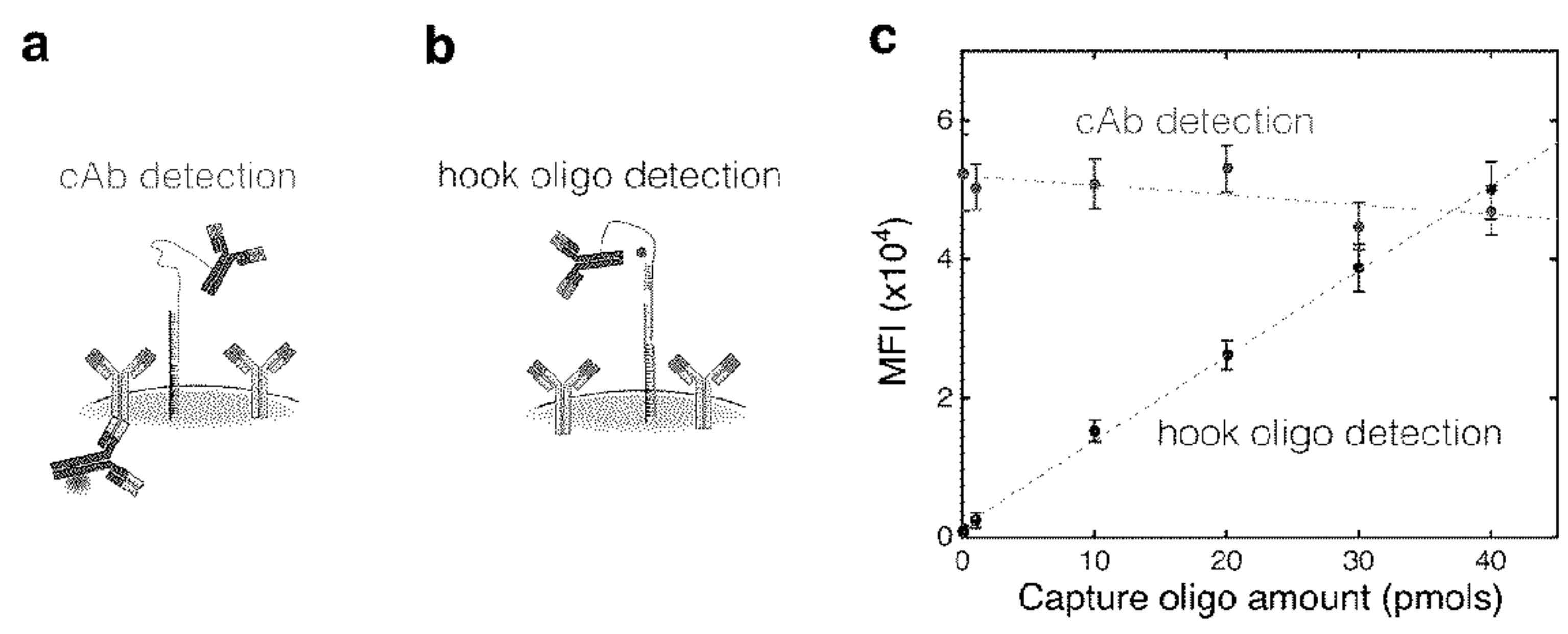


FIG. 21

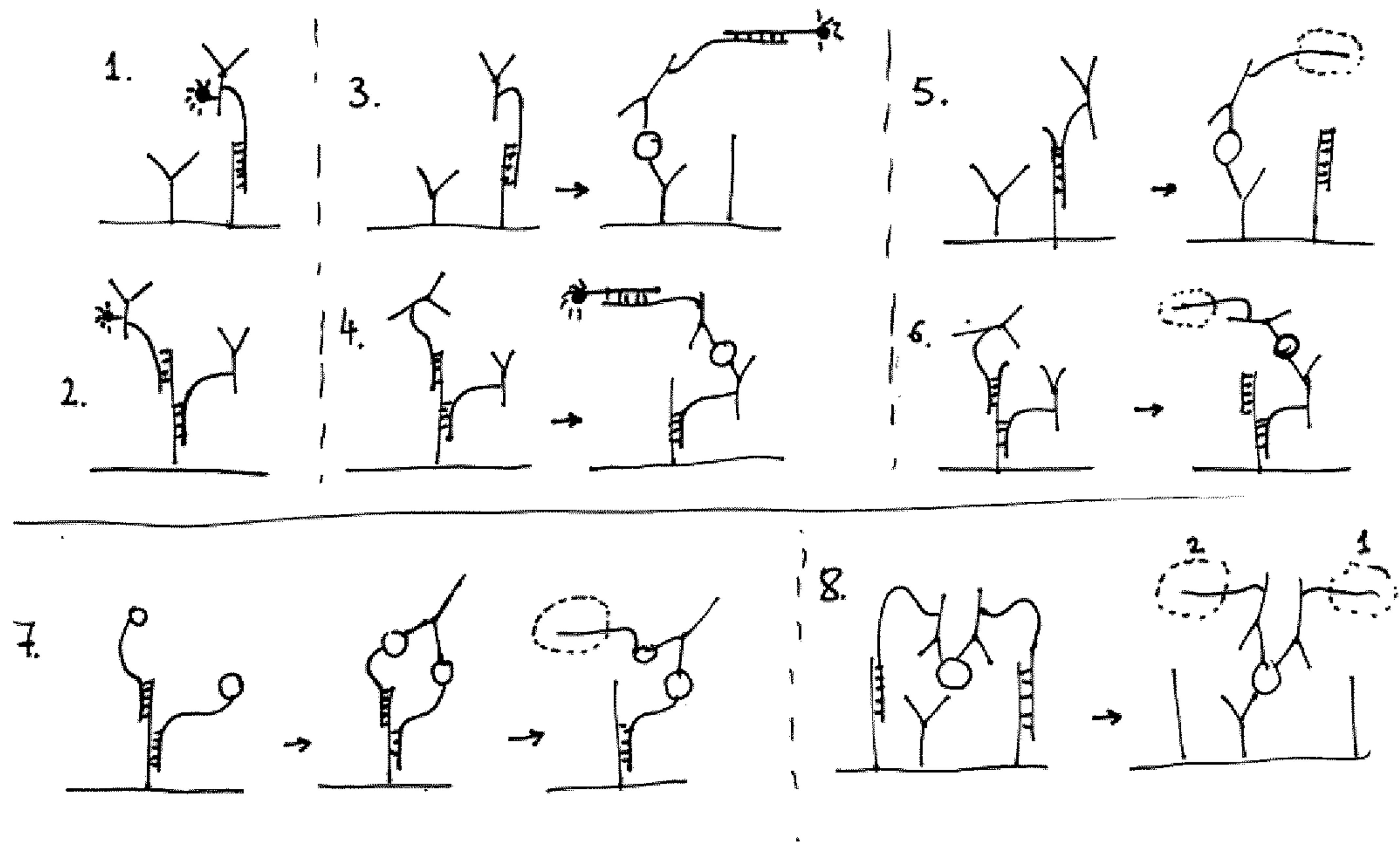


FIG. 22

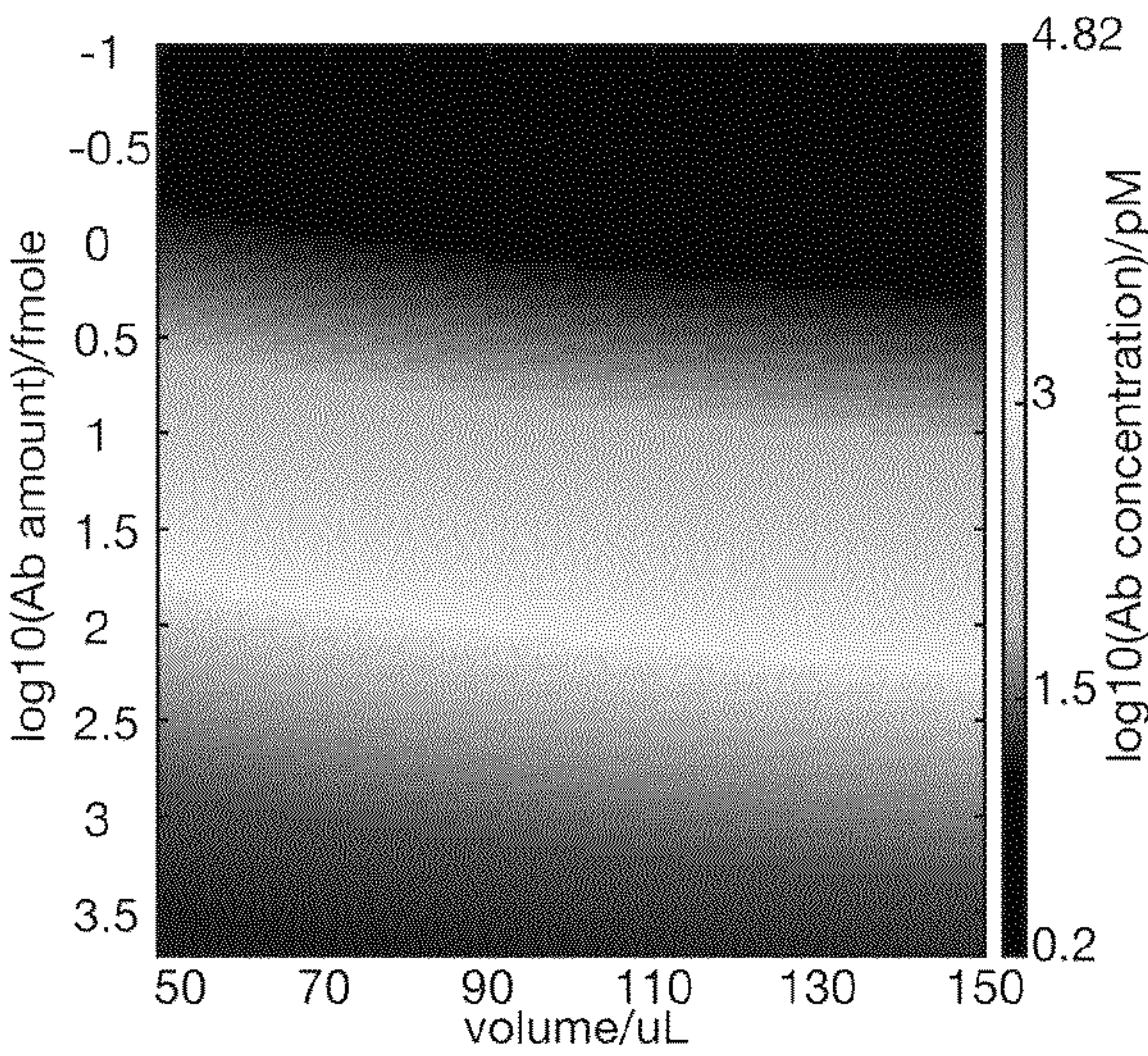


FIG. 23

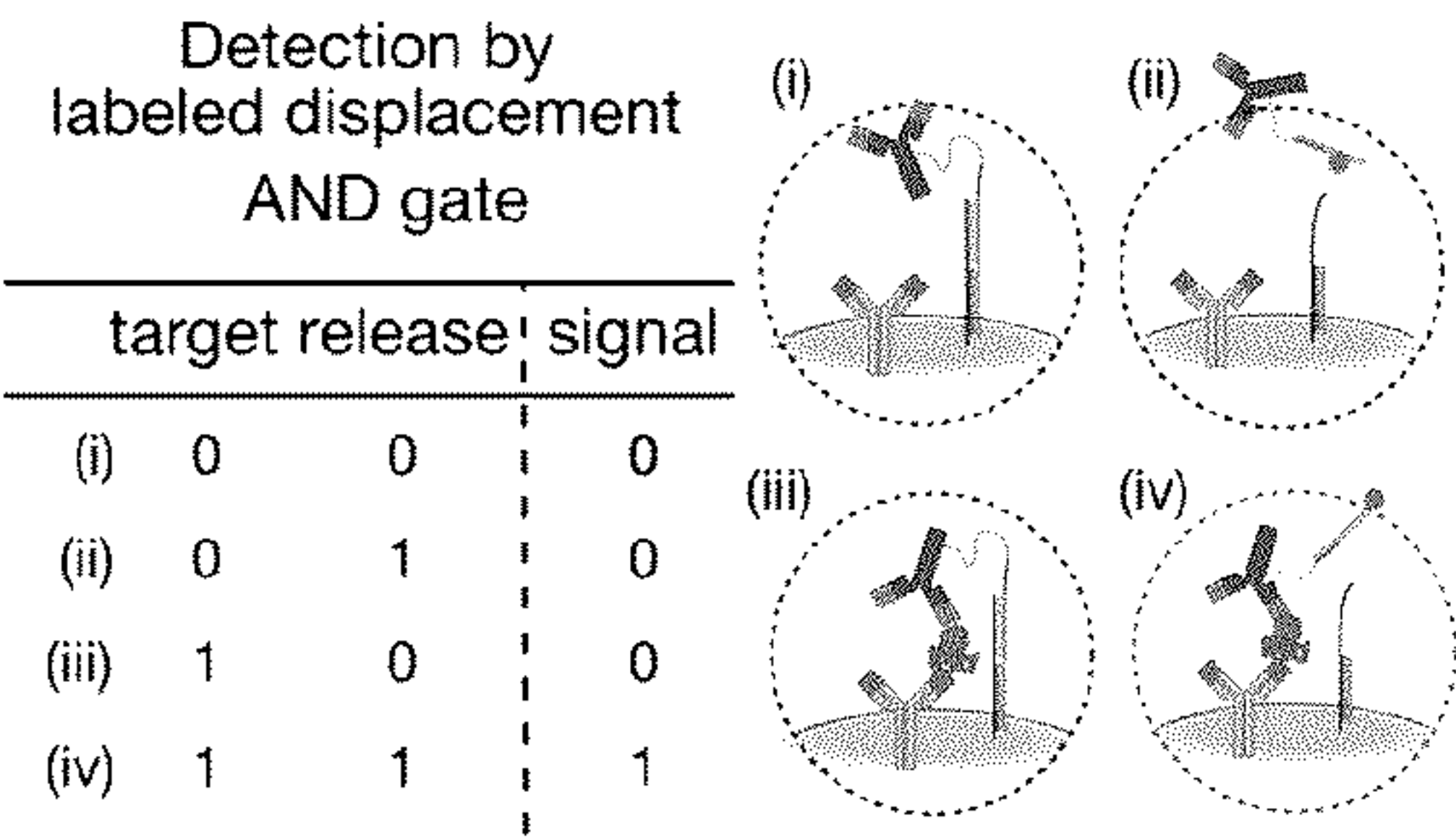


FIG. 24

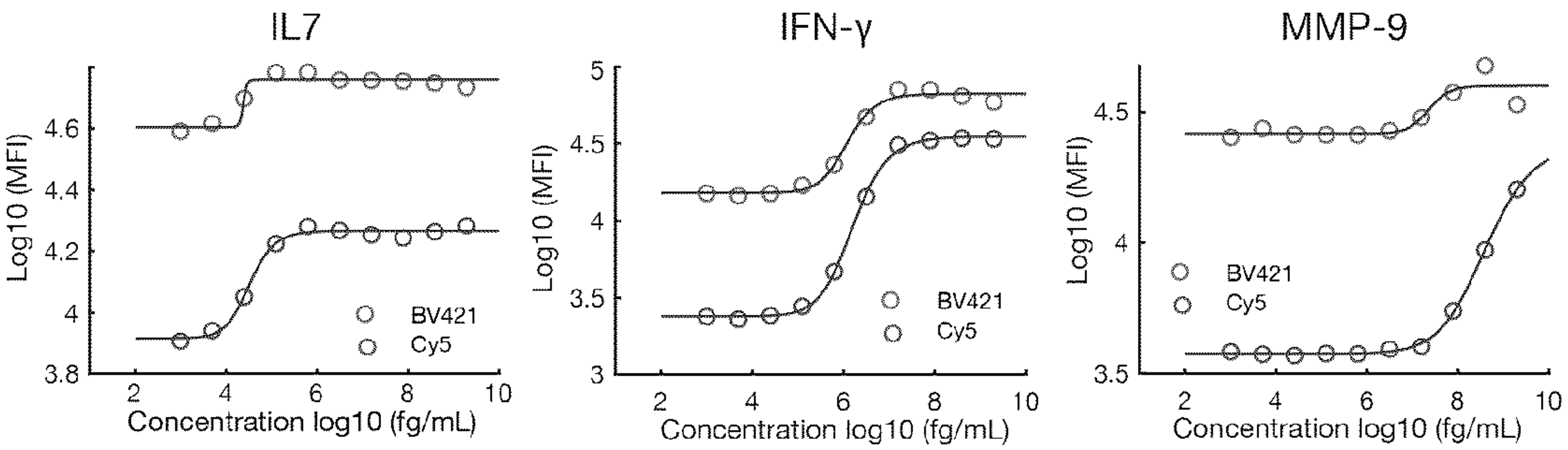


FIG. 25

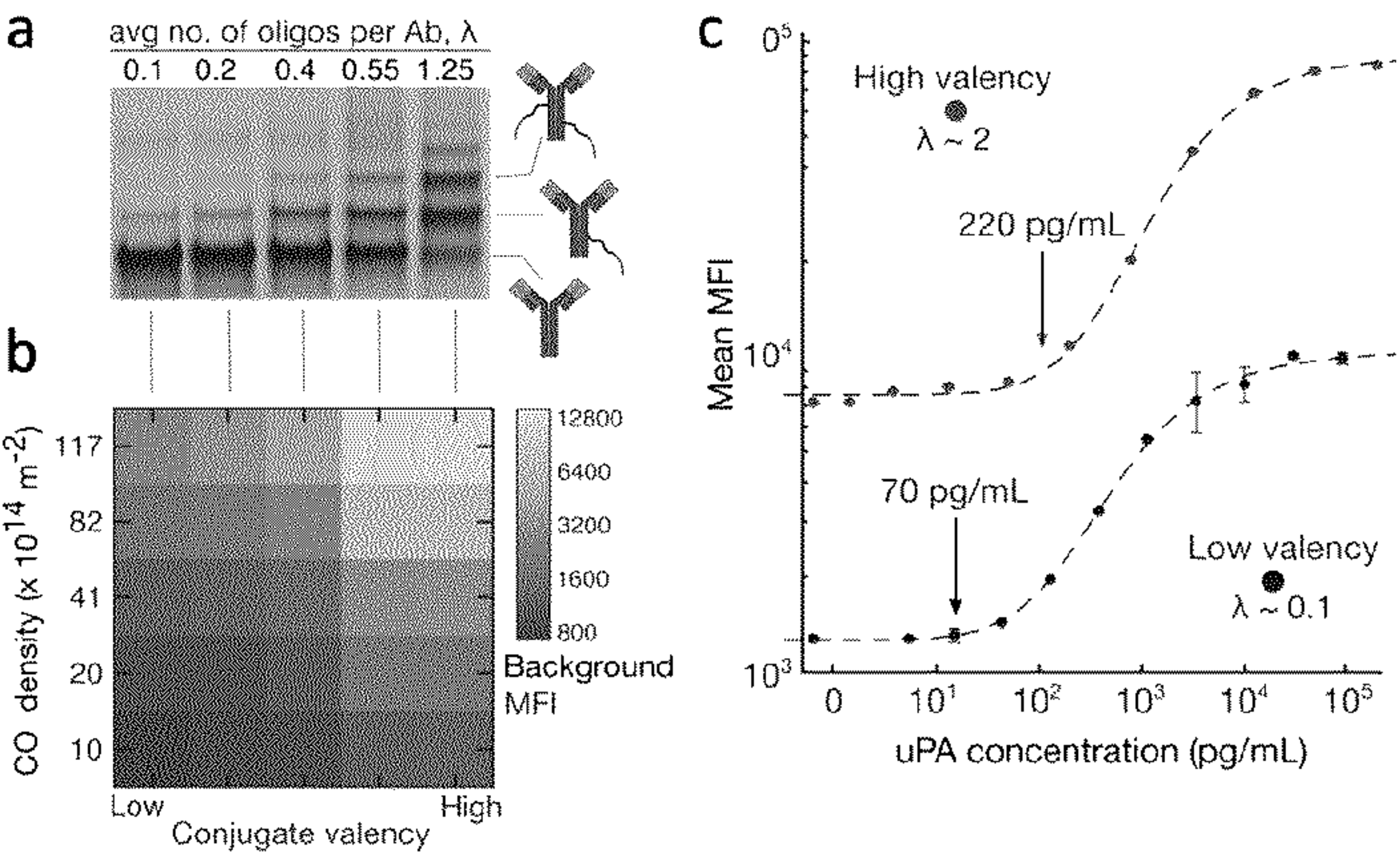


FIG. 26

