

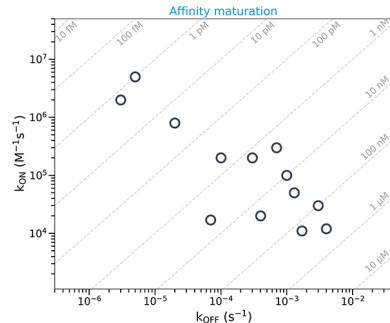
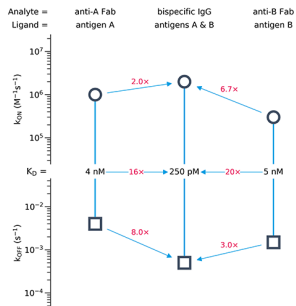
rateSCALE & **rate**MAP **plots**

of molecular binding kinetics

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Figure 1 is a plot showing the ON and OFF rates of a pH-dependent interaction. The y-axis represents the rate constants k_{on} ($M^{-1}s^{-1}$) and K_D (M), ranging from 10^{-3} to 10^8 . The x-axis represents the pH value, ranging from 3 to 9. The ON rate (k_{on}) is shown as circles, and the OFF rate (K_D) is shown as squares. The data points are labeled with their corresponding K_D values: 56 pM, 67 pM, 130 pM, 500 pM, 8.8 nM, 590 nM, and 1.5 μ M.

pH	k_{on} ($M^{-1}s^{-1}$)	K_D (M)
3	$\sim 10^7$	56 pM
4	$\sim 10^7$	67 pM
5	$\sim 10^7$	130 pM
6	$\sim 10^6$	500 pM
7	$\sim 10^5$	8.8 nM
8	$\sim 10^4$	590 nM
9	$\sim 10^4$	1.5 μ M



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