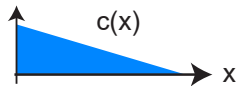


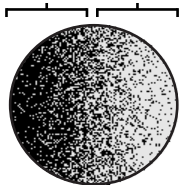
a

cAMP
concentration
 $c(x)$



receptor occupancy

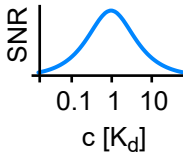
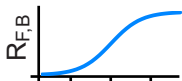
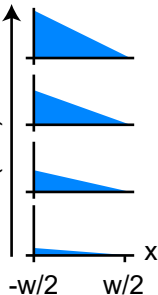
$$\Delta R = R_F - R_B$$



$$\text{SNR} = \frac{\Delta R}{\sqrt{\sigma_B^2 + \sigma_{\Delta R}^2/I}}$$

b

c(-w/2) changes,
 $c(w/2)=0$

**c**