## Non-covalent protein-protein interactions

Many protein interactions involve two species that form a temporary complex.



## Examples of some K<sub>D</sub> values



In adult mammals, the half-life of IgG in the blood is very long (about 3 weeks). This neonatal Fc receptor (FcRn) is expressed on epithelial cells and salvages endocytosed IgG from degradation.





















(a) Association phase: A is injected and allowed to bind to B.





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What if this was an ELISA with a 1 hour incubation?



Plot of binding isotherms at 1 hour



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