



# Antibody Fc: Chapter 7. Structural Recognition of Immunoglobulins by Fcγ Receptors

Peter Sun

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### Antibody Fc: Chapter 7. Structural Recognition of Immunoglobulins by Fcy Receptors

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Antibody Fc: Chapter 7. Structural Recognition of Immunoglobulins by Fc\(\gamma\) Receptors Peter Sun Molecular mechanisms of antibody-mediated Fc receptor activation have long been an interest in both Fc receptor biology and antibody therapeutics. The structural efforts to elucidate antibody recognition by Fc receptors have led to the generation of several crystal structures of antibody Fc fragments complexed with Fc receptors. Collectively, these structures revealed a conserved receptor binding mode for IgG and IgE, distinct from those for the neonatal Fc receptor (FcRn), protein A, and protein G. Fc\u03c4 receptor recognition in the lower hinge region allows enhanced antigen recognition through dimeric Fabs but obligates immunecomplex formation for receptor activation. It also provides the basis for Fc $\gamma$  receptors to differentiate among IgG subclasses. More recently, pentraxins have also been shown to bind and activate Fc receptors, and structural efforts to elucidate pentraxin Fcy receptor recognition have revealed surprising similarities between pentraxins and immunoglobulins in Fc receptor recognition. This review summarizes the structural findings that formed the basis of modern antibody-Fc receptor biology and recent advances of shared Fc receptor recognition by innate pentraxins.



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