

## FCGR2A

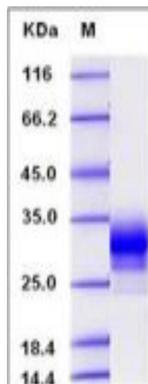
### Recombinant Human CD32a / Fc-gamma RII-a (167 Arg, His Tag)

<b>Catalog No.</b>	CRH468A-His CRH468B-His	<b>Quantity:</b>	50 µg 100 µg
<b>Alternate Names:</b>	Low affinity immunoglobulin gamma Fc region receptor II-a, IgG Fc receptor II-a, CDw32, Fc-gamma RII-a, Fc-gamma-RIIa, FcRII-a, CD32		
<b>Description:</b>	CD32a is one of 3 major subtypes of CD32 and is involved in activating cellular immune responses. It is a surface receptor glycoprotein belonging to the Ig gene superfamily, found on the surface of a variety of immune cells, notably platelets, neutrophils, macrophages, and dendritic cells. On platelets, it is known to aid in the internalization of IgG-opsonized Escherichia coli, and it is more generally implicated in mediating bacterial-activated platelet responses. CD32a also plays an important role in platelet activation, adhesion, and aggregation in response to injured blood vessels. CD32a has a low-affinity for the Fc region of IgG antibodies in monomeric form, but high affinity for IgG immune complexes. CD32a is unique to primates.		
<b>UniProt ID:</b>	P12318		
<b>Accession Number:</b>	AAA35827.1		
<b>Protein Construction:</b>	A DNA sequence encoding (Met 1-Ile 218) of human CD32a was expressed with a C-terminal polyhistidine tag.		
<b>Source:</b>	CHO Cells		
<b>Formulation:</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
<b>Molecular Weight:</b>	The secreted recombinant human CD32a consists of 196 amino acids and predicts a molecular mass of 22 KDa. The apparent molecular mass of the protein is approximately 29-32 KDa in SDS-PAGE under reducing conditions due to glycosylation.		
<b>Purity:</b>	> 97 % as determined by SDS-PAGE		
<b>Endotoxin Level:</b>	< 1.0 EU per µg of the protein as determined by the LAL method.		
<b>Biological Activity:</b>	Measured by its binding ability in a functional ELISA. Immobilized human CD32a-His at 10 µg/ml (100 µl/well) can bind biotinylated human IgG1, The EC50 of biotinylated human IgG1 is 0.14-0.32 µg/ml.		
<b>Predicted N-terminal:</b>	Gln 34		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution.		

**Storage & Stability:**

Stable for up to 1 year from date of receipt at -20°C to -80°C  
After reconstitution, store working aliquots at -20°C to -80°C.  
**Avoid repeated freeze-thaw cycles.**

SDS-PAGE



**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**