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# FCGR3A Protein (His tag)





#### Overview

Quantity:	100 μg	
Target:	FCGR3A	
Origin:	Rat	
Source:	HEK-293 Cells	
Protein Type:	Recombinant	
Biological Activity:	Active	
Purification tag / Conjugate:	This FCGR3A protein is labelled with His tag.	

#### **Product Details**

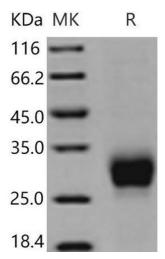
Purpose:	Recombinant Rat CD16a/FCGR3A Protein (His Tag)(Active)	
Sequence:	Met 1-Pro 200	
Characteristics:	A DNA sequence encoding the rat FCGR3A (ABO70343.1) extracellular domain (Met 1-Pro 200) was expressed, fused with a polyhistidine tag at the C-terminus.	
Purity:	> 97 % as determined by SDS-PAGE	
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method	
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized rat FCGR3A-His at 10 $\mu$ g/ml (100 $\mu$ l/well) can bind biotinylated human IgG1, The EC50 of biotinylated human IgG1 is 59.0-139.0 ng/ml.	

#### **Target Details**

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## **Target Details**

Alternative Name:	CD16a/FCGR3A (FCGR3A Products)	
Background:	Background: The Fc receptor with low affinity for IgG (FCGR3, or CD16) is encoded by 2 nearly	
	identical genes, FCGR3A and FCGR3B, resulting in tissue-specific expression of alternative	
	membrane-anchored isoforms. FCGR3A, it is also known as CD16a, encodes a transmembrane	
	protein expressed on activated monocytes/macrophages, natural killer (NK) cells, and a subset	
	of T cells. CD16a / FCGR3A is a receptor expressed on NK cells that facilitates antibody	
	dependent cellular cytotoxicity (ADCC) by binding to the Fc portion of various antibodies.	
	CD16a / FCGR3A also has a broader function. CD16a / FCGR3A is directly involved in the lysis	
	of some virus-infected cells and tumor cells by NK cells, independent of antibody binding.	
	Cross-linking of CD16a / FCGR3A on NK cells resulted in increased intracellular Ca2+ levels and	
	a cascade of biochemical events similar to those activated by the T cell receptor. CD16a /	
	FCGR3A on human NK cells is a lysis receptor that mediates the direct killing of some virus	
	infected and tumor cells, independent of antibody ligation.	
	Synonym: Fcgr4	
Molecular Weight:	21.7 kDa	
Application Details		
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Please refer to the printed manual for detailed information.	
Buffer:	Lyophilized from sterile PBS, pH 7.4	
Storage:	4 °C,-20 °C,-80 °C	
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.	
	Reconstituted protein solution can be stored at $4-8^{\circ}$ C for $2-7$ days. Aliquots of reconstituted samples are stable at < $-20^{\circ}$ C for 3 months.	



## **Western Blotting**

Image 1.