

Datasheet for ABIN7195704  
**FCGR3A Protein (His tag,AVI tag)**[Go to Product page](#)

## 1 Image

## Overview

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

## Product Details

Purpose:	Recombinant Human CD16a/FCGR3A Protein (176 Val, His&AVI Tag)(Active)
Sequence:	Met 1-Gln 208
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Gln 208) of human CD16a (AAH17865.1) was fused with a c-terminal polyhistidine tagged AVI tag at the C-terminus. It is identical to FCGR3A158F/V in the reference.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized human CD16a-AVI-His (V158) at 10 µg/ml (100 µl/well) can bind biotinylated human IgG1, The EC50 of biotinylated human IgG1 is 0.08-0.18 µg/ml.

## Target Details

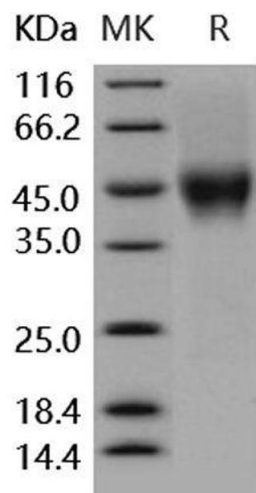
Target:	FCGR3A
Alternative Name:	CD16a/FCGR3A ( <a href="#">FCGR3A Products</a> )
Background:	<p>Background: The Fc receptor with low affinity for IgG (FCGR3, or CD16) is encoded by 2 nearly identical genes, FCGR3A and FCGR3B, resulting in tissue-specific expression of alternative membrane-anchored isoforms. 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 Ca<sup>2+</sup> 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.</p> <p>Synonym: Low Affinity Immunoglobulin Gamma Fc Region Receptor III-A, CD16a Antigen, Fc-Gamma RIII-Alpha, Fc-Gamma RIII, Fc-gamma RIIIa, FcRIII, FcRIIIa, FcR-10, IgG Fc Receptor III-2, CD16a, FCGR3A, CD16A, FCG3, FCGR3, IGFR3,CD16,CD16A</p>
Molecular Weight:	25.6 kDa

## Application Details

Restrictions:	For Research Use only
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## 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:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>



Western Blotting

Image 1.