

Datasheet for ABIN7317018
FCGR3A Protein (Biotin,His-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 Biotin,His-Avi Tag.

Product Details

Purpose:	Recombinant Human CD16a/FCGR3A Protein (176 Val, His&AVI Tag), Biotinylated(Active)
Sequence:	Met 1-Gln 208
Characteristics:	A DNA sequence encoding the extracellular domain (Met1-Gln208) of human CD16a (P08637-1, with natural variant Phe 176 Val) was fused with a c-terminal polyhistidine tagged AVI tag at the C-terminus (AVI-his). The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.
Purity:	> 95 % 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 ability to bind recombinant human IgG1 in a functional ELISA.

Target Details

Target:	FCGR3A
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Target Details

Alternative Name: CD16a/FCGR3A ([FCGR3A Products](#))

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: 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

Molecular Weight: 25.6 kDa

Application Details

Restrictions: For Research Use only

Handling

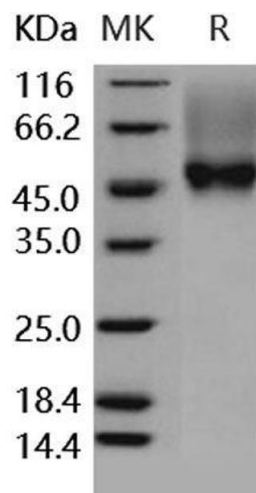
Format: Lyophilized

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°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.