

CD16a / FCGR3A active protein

Recombinant Human CD16a / FCGR3A Protein (176 Val, His & AVI tag)

CATALOG # AAA173505	HOST HEK293 Cells
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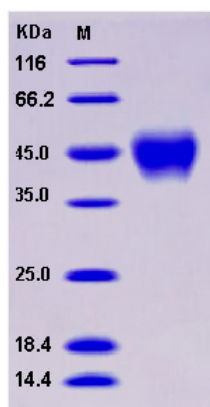
PRODUCT SYNONYMS

CD16a / FCGR3A; Recombinant Human CD16a / FCGR3A Protein (176 Val; His & AVI tag); 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; CD16a / FCGR3A active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	> 90 % as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from sterile PBS, pH 7.4, 5%Trehalose, 5% Mannitol, 0.01% Tween 80.
Sequence	Met1-Gln20 8
Species	Human
Tag	C-His & AVI
Bio Activity	Measured by its binding ability in a functional ELISA. Immobilized human CD16a-AVI-His (V158) at 10 ug/ml (100 ul/well) can bind biotinylated human IgG1, The EC50 of biotinylated human IgG1 is 0.08-0.18 ug/ml.
Endotoxin	< 1.0 EU per ug as determined by the LAL method.
Reconstitution	It is recommended that sterile water (400uL) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	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. This product is provided as lyophilized powder which is shipped with blue ice.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CD16a / FCGR3A active protein	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	17389688
NCBI GeneID	2214
Molecular Weight	Mol_Mass: 25.6 kDa AP_Mol_Mass: 46 kDa
NCBI Official Full Name	FCGR3A protein
NCBI Official Synonym Full Names	Fc fragment of IgG receptor IIIa
NCBI Official Symbol	FCGR3A
NCBI Official Synonym Symbols	CD16; FCG3; CD16A; FCGR3; IGFR3; IMD20; FCR-10; FCRIII; FCGRIII; FCRIIIA
NCBI Protein Information	low affinity immunoglobulin gamma Fc region receptor III-A
UniProt Protein Name	Low affinity immunoglobulin gamma Fc region receptor III-A
UniProt Gene Name	FCGR3A
UniProt Synonym Gene Names	CD16A; FCG3; FCGR3; IGFR3; Fc-gamma RIII; Fc-gamma RIIIA; FcRIII; FcRIIIa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.