

Active Recombinant Human FCGR3A Protein (18-208aa), C-His-tagged

Cat. No. FCGR3A-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant human FCGR3A (18-208aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Species

Human

Source

Insect Cells

ProteinLength

18-208aa

Description

This gene encodes a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other responses, including antibody dependent cellular mediated cytotoxicity and antibody dependent enhancement of virus infections. This gene (FCGR3A) is highly similar to another nearby gene (FCGR3B) located on chromosome 1. The receptor encoded by this gene is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, whereas FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene are associated with immunodeficiency 20, and have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

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 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Liquid
Bio-activity	Measured by its binding ability in a functional ELISA with Human IgG1 Fc.
Molecular Mass	22.8 kDa (200aa)
AA Sequence	MRTEDLPKAVVFLEPQWYRVLEKDSVTLKCQGAYSPEDNSTQWFHNESLISSQASS YFIDAATVDDSGEYRCQTNLSTLSDPVQLEVHIGWLLLQAPRWVFKEEDPIHLRCHS WKNTALHKVTYLQNGKGRKYFHHNSDFYIPKATLKDSGSYFCRGLFGSKNVSSSETV NITITQGLAVSTISSFFPPGYQ
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Notes	Note: For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
GENE INFORMATION	
Gene Name	FCGR3A Fc gamma receptor IIIa [Homo sapiens (human)]

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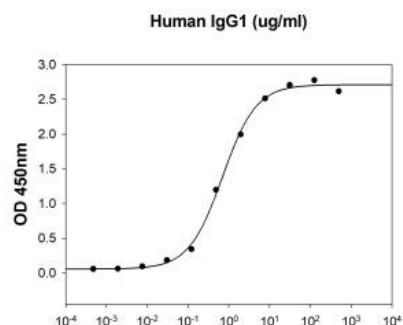
Official Symbol	FCGR3A
Synonyms	FCGR3A; Fc gamma receptor IIIa; CD16; FCG3; CD16A; FCGR3; IGFR3; IMD20; FCR-10; FCRIII; CD16-II; FCGRIII; FCRIIIA; FcGRIIIA; low affinity immunoglobulin gamma Fc region receptor III-A; CD16a antigen; Fc fragment of IgG receptor IIIa; Fc fragment of IgG, low affinity III, receptor for (CD16); Fc fragment of IgG, low affinity IIIa, receptor (CD16a); Fc gamma receptor III-A; Fc-gamma RIII-alpha; Fc-gamma receptor III-2 (CD 16); Fc-gamma receptor IIIb (CD16); FcgammaRIIIA; IgG Fc receptor III-A; igG Fc receptor III-2; immunoglobulin G Fc receptor III; low affinity immunoglobulin gamma Fc region receptor III-A/III-B recombinant; low affinity immunoglobulin gamma Fc region receptor III-B; low affinity immunoglobulin gamma receptor III-a Fc fragment; neutrophil-specific antigen NA
Gene ID	2214
mRNA Refseq	NM_001127593
Protein Refseq	NP_001121065
MIM	146740
UniProt ID	P08637

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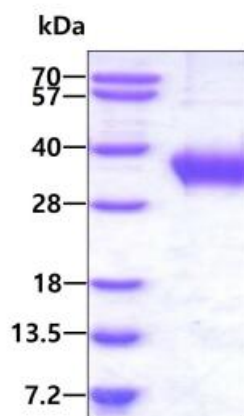
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Activity



SDS-PAGE



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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