

Recombinant Full Length Human FCGR3A Protein, C-Flag-tagged

Cat. No. FCGR3A-138HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human FCGR3A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	27.2 kDa
AA Sequence	MGGGAGERLFTSSCLVGLVPLGLRISLVTCPLQCGIMWQLLLPTALLLVSAGMRTE DLPKAVVFLEPQW YRVLEKDSVTLKCQGAYSPEDNSTQWFHNESLISSQASSYFID AATVDDSGEYRCQTNLSTLSDPVQLEV HIGWLLLQAPRWVFKEEDPIHLRCHSWKN TALHKVTYLQNGKGRKYFHHNSDFYIPKATLKDSGSYFCRG LVGSKNVSSSETVNITI TQGLAVSTISSFFPPGYQVSFCLVMVLLFAVDTGLYFSVKTNIRSSTRDWKDHK FKWRKDPQDKTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	ES Cell Differentiation/IPS, Secreted Protein, Transmembrane
Protein Pathways	Fc gamma R-mediated phagocytosis, Natural killer cell mediated cytotoxicity, Systemic lupus erythematosus
Full Length	Full L.

GENE INFORMATION

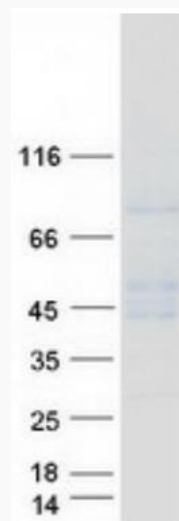
Gene Name	FCGR3A Fc gamma receptor IIIa [Homo sapiens (human)]
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Official Symbol	FCGR3A
Synonyms	CD16; FCG3; CD16A; FCGR3; IGFR3; IMD20; FCR-10; FCRIII; CD16-II; FCGRIII; FCRIIIA; FcGRIIIA
Gene ID	2214
mRNA Refseq	NM_000569.8
Protein Refseq	NP_000560.7
MIM	146740
UniProt ID	P08637



Coomassie blue staining of purified FCGR3A protein.

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