

Recombinant Human FCGR3A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FCGR3A-5624H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FCGR3A MS Standard C13 and N15-labeled recombinant protein (NP_000560) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 other antibody-dependent responses. 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 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.
Molecular Mass	32.64 kDa
AA Sequence	MGGGAGERLFTSSCLVGLVPLGLRISLVTCLQCGIMWQLLLPTALLLVSAGMRTE DLPKAVVFLEPQWYRVLEKDSVTLKCQGAYSPEDNSTQWFHNESLISSQASSYFIDA

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ATVDDSGEYRCQTNLSTLSDPVQLEVHIGWLLQAPRWVFKEEDPIHLRCHSWKNT
ALHKVTYLQNGKGRKYFHHNSDFYIPKATLKDSGSYFCRGLVGSKNVSSSETVNITIT
QGLAVSTISSFFPPGYQVSFCLVMVLLFAVDTGLYFSVKTNIRSSTRDWKDHKFKWR
KDPQDKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name FCGR3A Fc fragment of IgG receptor IIIa [Homo sapiens (human)]

Official Symbol FCGR3A

Synonyms FCGR3A; Fc fragment of IgG, low affinity IIIa, receptor (CD16a); Fc fragment of IgG, low affinity IIIa, receptor for (CD16), FCG3, FCGR3; low affinity immunoglobulin gamma Fc region receptor III-A; CD16; CD16a; FcgammaRIIIA; CD16a antigen; fc-gamma RIII; Fc-gamma RIIIa; Fc-gamma RIII-alpha; igG Fc receptor III-2; Fc gamma receptor III-A; Fc-gamma receptor IIIB (CD16); neutrophil-specific antigen NA; Fc-gamma receptor III-2 (CD 16); immunoglobulin G Fc receptor III; Fc fragment of IgG, low affinity III, receptor for (CD16); FCG3; CD16A; FCGR3; IGFR3; FCR-10; FCRIII; FCGRIII; FCRIIIA;

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Gene ID	2214
mRNA Refseq	NM_000569
Protein Refseq	NP_000560
MIM	146740
UniProt ID	P08637
SDS-PAGE	