Datasheet for ABIN1096633

FCGR3A Protein (AA 17-208) (His tag)

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Overview

Quantity:	50 µg
Target:	FCGR3A
Protein Characteristics:	AA 17-208
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FCGR3A protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Fc γ RIIIA/FCGR3A/CD16a (C-6His)
Sequence:	GMRTEDLPKA VVFLEPQWYR VLEKDSVTLK CQGAYSPEDN STQWFHNESL ISSQASSYFI DAATVDDSGE YRCQTNLSTL SDPVQLEVHI GWLLLQAPRW VFKEEDPIHL RCHSWKNTAL HKVTYLQNGK GRKYFHHNSD FYIPKATLKD SGSYFCRGLV GSKNVSSETV NITITQGLAV STISSFFPPG YQHHHHHH
Characteristics:	Recombinant Human FcgammaRIIIA/FCGR3A produced by transfected human cells is a secreted protein with sequence (Gly17-Gln208) of Human FCGR3A with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	FCGR3A
Alternative Name:	cd16a (FCGR3A Products)
Sub Type:	Fusionprotein
Background:	Receptors for the Fc region of immunoglobin G (FcgammaR) are divided into three classes and FcgammaRIII is a multifunctional, low/intermediate affinity receptor. In humans, FcgammaRIII is expressed as two distinct forms (FcgammaRIIIA and FcgammaRIIIB) that are encoded by two different but highly homologous genes in a cell type-specific manner. FcgammaRIIIB is a low-affinity, GPI-linked receptor expressed by neutrophils and eosinophils, whereas FcgammaRIIIA is an intermediate affinity polypeptide-anchored transmembrane glycoprotein expressed by a subset of T lymphocytes, natural killer (NK) cells, monocytes, and macrophages. The FcgammaRIIIA receptor is involved in phagocytosis, secretion of enzymes, inflammatory mediators, antibody-dependent cellular cytotoxicity (ADCC), mast cell degranulation, and clearance of immune complexes. FcgammaRIIIA has an immunoreceptor tyrosine-based activation motif (ITAM) in its cytoplasmic domain and delivers an activation signal in the immune responses. Aberrant expression or mutations in this gene is implicated in susceptibility to recurrent viral infections, systemic lupus erythematosus, and alloimmune neonatal neutropenia. In humans, it is a 50 -70 kD type I transmembrane activating receptor. The FcgammaRIIIA cDNA encodes 254 amino acid including a 16aa signal sequence, 191 amino acid ECD with two C2-type Ig-like domains, five potential N-glycosylation sites, a 22 amino acid transmembrane sequence and a 25 amino acid cytoplasmic domain. Alternative Names: 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
Molecular Weight:	22.61kDa
UniProt:	P08637

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O.

Handling

	Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months