

Human CellExp™ FCGR3A/CD16a (176 Phe)

10/20

CATALOG NO:	P1609-50 50 µg
ALTERNATE NAMES:	FCGR3A; CD16A; FCG3; FCGR3; IGFR3; Fc gamma RIIIa; IgG Fc receptor III-2
MOL. WT.	The recombinant human CD16a consists of 203 amino acids and has a predicted molecular mass of 23.3 kDa. The protein migrates as a band at ~45.2 kDa due to glycosylation, in SDS-PAGE under reducing conditions.
ACCESSION NO:	P08637-1
PURITY:	≥ 97% as determined by SDS-PAGE
SOURCE:	HEK293 cells
ENDOTOXIN:	< 1.0 EU per µg of the protein as determined by the LAL method
TAG:	C terminal His tag
FORM:	Lyophilized protein
FORMULATION:	Lyophilized from sterile PBS, pH 7.4, 5% trehalose, 5% mannitol and 0.01% Tween-80.
RECONSTITUTION:	Reconstitute in sterile water to a concentration of 250 µg/ml by adding 200 µl to 50 µg of protein.
ACTIVITY:	Activity of CD16a was measured by its binding ability in a functional ELISA. Immobilized human CD16a at a concentration of 10 µg/ml (100 µl/well) can bind biotinylated human IgG1.
AMINO ACID SEQUENCE:	The DNA sequence encoding the extracellular domain (Met 1-Gln 208) of human CD16a (P08637-1) precursor was expressed with a C-terminal polyhistidine tag. The predicted N terminal is Gly 17.
STORAGE CONDITIONS:	Store at -20 °C or -80 °C. After reconstitution, divide into small aliquots and store at -20 °C or -80 °C. Avoid repeated freeze-thaw cycles.
DESCRIPTION:	CD16a/FCGR3A is a low affinity receptor for the Fc region of IgG. The two genes for human FCGR3A encode for CD16A and CD16B. CD16a is a transmembrane protein found on the surface of natural killer cells, activated monocytes and macrophages and a subset of T cells. CD16a is involved in phagocytosis, secretion of enzymes and inflammatory mediators, antibody dependent cytotoxicity and clearance of immune complexes. Aberrant expression or mutations of CD16a can cause susceptibility to recurrent viral infections, systemic lupus erythematosus, and alloimmune neonatal neutropenia.

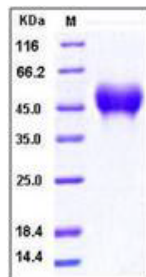


Fig.A SDS-PAGE of Human FCGR3A/CD16a

RELATED PRODUCTS:

CD226, human recombinant (Cat. No. 7310)
 CD-14, human recombinant (Cat. No. 4937)
 Human CellExp™ CD4, human recombinant (Cat. No. 7834)
 CD274, mouse recombinant (Cat. No. 7311)
 Human CellExp™ CD27 Ligand/ CD70, Human Recombinant (Cat. No. P1381)

FOR RESEARCH USE ONLY! Not to be used on humans.