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FCGR3A Protein (His tag)





Go to Product page

Overview

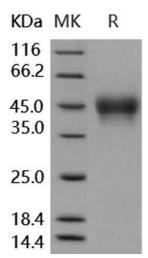
Quantity:	100 μg
Target:	FCGR3A
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FCGR3A protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CD16a/FCGR3A Protein (176 Val, His Tag)(Active)
Sequence:	Met 1-Gln 208
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Gln 208) of human CD16a (AAH17865.1) was expressed, with a C-terminal polyhistidine tag. It is identical to FCGR3A158F/V in the reference.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	1.Using the Octet RED System, the affinity constant (Kd) of CD16a bound to Human IgG1 was 80nM.2.Measured by its binding ability in a functional ELISA. Immobilized human CD16a-His(176 Val) at 10ug/ml(100ul/well) can bind human IgG1 with a linear range of 0.00128-0.8 μ g/ml.

Target Details

Target:	FCGR3A
Alternative Name:	CD16a/FCGR3A (FCGR3A Products)
Background:	Background: The Fc receptor with low affinity for IgG (FCGR3, or CD16) is encoded by 2 nearly
	identical genes, FCGR3A and FCGR3B, resulting in tissue-specific expression of alternative
	membrane-anchored isoforms. FCGR3A, it is also known as CD16a, encodes a transmembrane
	protein expressed on activated monocytes/macrophages, natural killer (NK) cells, and a subset
	of T cells. CD16a / FCGR3A is a receptor expressed on NK cells that facilitates antibody
	dependent cellular cytotoxicity (ADCC) by binding to the Fc portion of various antibodies.
	CD16a / FCGR3A also has a broader function. CD16a / FCGR3A is directly involved in the lysis
	of some virus-infected cells and tumor cells by NK cells, independent of antibody binding.
	Cross-linking of CD16a / FCGR3A on NK cells resulted in increased intracellular Ca2+ levels and
	a cascade of biochemical events similar to those activated by the T cell receptor. CD16a /
	FCGR3A on human NK cells is a lysis receptor that mediates the direct killing of some virus
	infected and tumor cells, independent of antibody ligation.
	Synonym: 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,CD16,CD16A
Molecular Weight:	23.3 kDa
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.