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Datasheet for ABIN7195694
FCGR2B Protein (His tag)

1 Image

Overview

Quantity:	100 µg
Target:	FCGR2B
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FCGR2B protein is labelled with His tag.

Product Details

Purpose:	Recombinant Rat CD32b/FCGR2B Protein (His Tag)(Active)
Sequence:	Met 1-Pro 212
Characteristics:	A DNA sequence encoding the rat FCGR2B (Q63203-1) extracellular domain (Met 1-Pro 212) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized human rat FCGR2B-His at 10 µg/ml (100 µl/well) can bind biotinylated human IgG1, The EC50 of biotinylated human IgG1 is 0.3-0.8 µg/ml.

Target Details

Target:	FCGR2B
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Target Details

Alternative Name: CD32b/FCGR2B ([FCGR2B Products](#))

Background: FcγRIIB is a low affinity receptor that recognizes the Fc portion of IgG. The human CD32 group consists of FcγRIIA, FcγRIIB, and FcγRIIC proteins that share 94-99 % sequence identity in their extracellular domains but differ substantially in their transmembrane and cytoplasmic domains. FcγRII protein is expressed on cells of both myeloid and lymphoid lineages as well as on cells of non-hematopoietic origin. FcγRIIB has an intrinsic cytoplasmic immunoreceptor tyrosine-based inhibitory motif (ITIM) and delivers an inhibitory signal upon ligand binding. Ligation of FcγRIIB on B cells down-regulates antibody production and in some circumstances may promote apoptosis. Co-ligation of FcγRIIB on dendritic cells inhibits maturation and blocks cell activation. FcγRIIB may also be a target for monoclonal antibody therapy for malignancies. FcγRIIB plays an important negative-regulating role through modulating the signals from activation receptors.

Synonym: FCRII, Fcgr2

Molecular Weight: 21.9 kDa

Pathways: [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Leukocyte Mediated Immunity](#), [Production of Molecular Mediator of Immune Response](#), [BCR Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

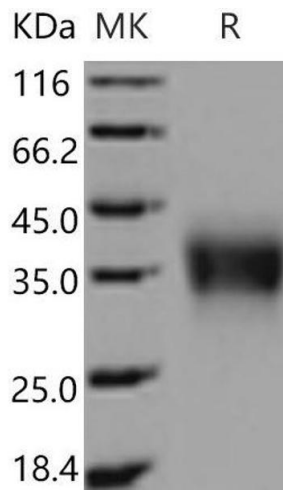
Format: Lyophilized

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.