

Datasheet for ABIN2870737

FCGR2B Protein (AA 40-217) (His tag)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	FCGR2B
Protein Characteristics:	AA 40-217
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FCGR2B protein is labelled with His tag.

Product Details

Brand:	MABSol®
Sequence:	AA 40-217
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 22.2 kDa. The protein migrates as 35-40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	FCGR2B
---------	--------

Target Details

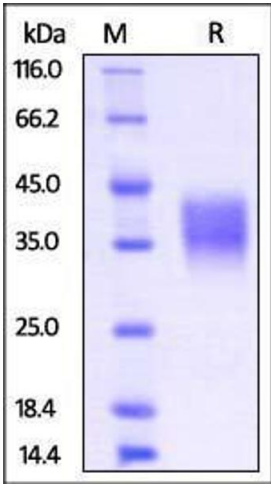
Alternative Name:	Fc gamma RIIB / CD32b (FCGR2B Products)
Background:	Receptors for the Fc region of IgG (Fc γ R) are members of the Ig superfamily that function in the activation or inhibition of immune responses. Three classes of human Fc γ Rs: RI (CD64), RII (CD32), and RIII (CD16), which generate multiple isoforms, are recognized. There are three genes for human Fc γ RII /CD32 (A, B, and C) and one for mouse Fc γ RII B (CD32B). CD32 is a low affinity receptor for IgG. Low affinity immunoglobulin gamma Fc region receptor II-b (FCGR2B) is also known as CD32b, FCG2, IGFR2. CD32B is expressed on B cells and myeloid dendritic cells. Ligation of CD32B on B cells downregulates antibody production and may, in some circumstances, promote apoptosis. Co-ligation of CD32B on dendritic cells inhibits maturation and blocks cell activation. CD32B may also be a target for monoclonal antibody therapy for malignancies.
Molecular Weight:	22.2 kDa
NCBI Accession:	NP_001070657
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
---------------	-----------------------

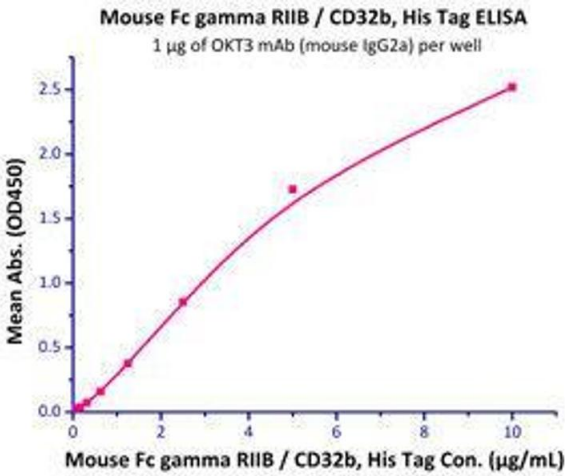
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C



SDS-PAGE

Image 1. Mouse Fc gamma RIIB / CD32b, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



Binding Studies

Image 2. Immobilized OKT3 mAb (mouse IgG2a) at 10 µg/mL (100 µl/well) can bind Mouse Fc gamma RIIB / CD32b, His Tag (Cat# CDB-M52H7) with a linear range of 0.16-5 µg/mL.