

Recombinant Human FCGR2B Protein, 46-217aa, C-His tagged

Cat. No. FCGR2B-05H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human Fc gamma RIIB/CD32b, 46-217aa, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	46-217aa
Description	<p>Fc gamma RIIB/CD32b, also known as FCGR2B, belongs to the Ig superfamily. It is a low-affinity receptor for the Fc region of immunoglobulins gamma that are complexed or aggregated. It participates in various effector and regulatory functions, such as phagocytosis of immune complexes and modulation of antibody production by B cells. Fc gamma RIIB/CD32b is expressed on B cells, monocytes, dendritic cells, neutrophils, mast cells, and basophils. When Fc gamma RIIB is ligated, it inhibits B cell expansion, plasma cell differentiation, production of autoimmune rheumatoid factors, and down-regulates TLR4 with reduced LPS responsiveness.</p>
Form	Liquid
Bio-activity	Measured by its binding ability in a functional ELISA with Human IgG1 Fc.
Molecular Mass	20.1kDa (178aa)

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AA Sequence	APPKAVLKLEPQWINVLQEDSVTLTCRGTHTSPESDSIQWFHNGNLIPTHTQPSYRFK ANNNDSGEYTCQTGQTSLSDPVHLTVLSEWLVLQTPHLEFQEGETIVLRCHSWKDK PLVKVTFQNGKSKKFSRSDPNFSIPQANHSHSGDYHCTGNIGYTLYSSKPVTITVQ AP
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
References	<ol style="list-style-type: none"> 1. Van de Winkel, J. and P. Capes (1993) Immunol. Today 14:215-221. 2. Raghaven, M. and P. Bjorkman (1996) Annu. Rev. Cell Dev. Biol. 12:181-220. 3. Ravetch, J. and S. Bolland (2001) Annu. Rev. Immunol. 19:275-290.

GENE INFORMATION

Gene Name	FCGR2B Fc fragment of IgG, low affinity IIb, receptor (CD32) [Homo sapiens (human)]
Official Symbol	FCGR2B

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Synonyms

FCGR2B; Fc fragment of IgG, low affinity IIb, receptor (CD32); Fc fragment of IgG, low affinity IIb, receptor for (CD32) , FCG2, FCGR2; low affinity immunoglobulin gamma Fc region receptor II-b; CD32; CD32B; CDw32; fcRII-b; Fc gamma RIIb; fc-gamma-RIIb; fc-gamma RII-b; igG Fc receptor II-b; Fc fragment of IgG, low affinity II, receptor for (CD32); Fc fragment of IgG, low affinity IIb, receptor for (CD32); FCG2; FCGR2; IGFR2

Gene ID

2213

mRNA Refseq

NM_001002274

Protein Refseq

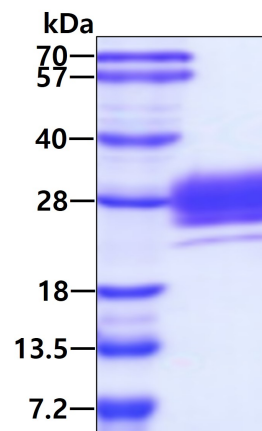
NP_001002274

MIM

604590

UniProt ID

P31994

SDS-PAGE


3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue

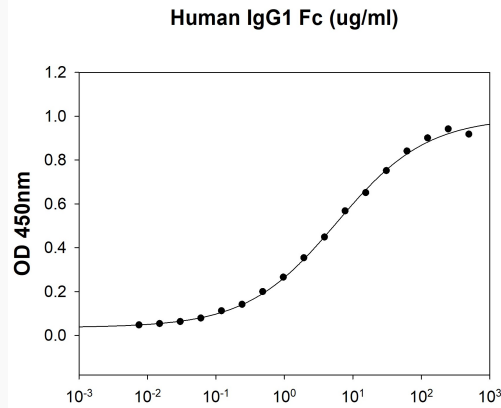
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Biological Activity



Human Fc gamma RIIb/CD32b is coated at 10 µg/mL (100 µL/well) can bind Human IgG1 Fc in a Functional ELISA assay.

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