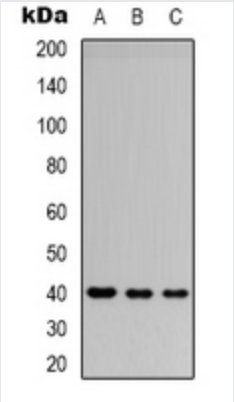
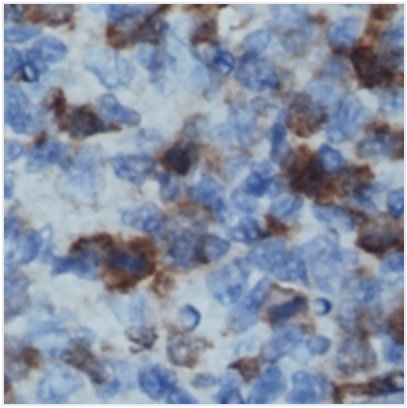
FCGR2B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD32b (FCGR2B), Polyclonal Antibody
Full Product Name	Anti-CD32b Antibody
Product Gene Name	anti-FCGR2B antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat, Monkey
Form/Format	Liquid in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3, 30% Glycerol, and 0.01% Sodium Azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of CD32b protein.
Preparation and Storage	Ships on blue ice. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Antibody/Peptide Pairs	CD32b peptide (MBS8243307) is used for blocking the activity of CD32b antibody (MBS8242254)
OMIM	152700
3D Structure	ModBase 3D Structure for P31994
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human CD32b. The exact sequence is proprietary.
Applications Tested/Suitable for anti-FCGR2B antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-FCGR2B antibody	Western Blot: (1/500 - 1/1000); Immunohistochemistry: (1/100 - 1/200)
Related Product Information for anti-FCGR2B antibody	MBS8242254 is an antibody targeting FCGR2B. Also known as Anti-CD32b Antibody. Reactive in Human, Mouse, Rat, Monkey. Host: Rabbit. Rabbit polyclonal antibody to CD32b
Other Notes	Small volumes of anti-FCGR2B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-FCGR2B antibody
Western blot analysis of CD32b expression in Jurkat (A), SHSY5Y (B), HEK293T (C) whole cell lysates.



Immunohistochemistry (IHC) of anti-FCGR2B antibody
Immunohistochemical analysis of CD32b staining in human lymph node formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FCGR2B. It may not necessarily be applicable to this product.

NCBI GI #	8039788
NCBI GeneID	2213
NCBI Accession #	P31994.2
UniProt Primary Accession #	P31994
UniProt Secondary Accession #	O95649; Q53X85; Q5VXA9; Q8NIA1; A6H8N3
UniProt Related Accession #	P31994
NCBI Official Full Name	Low affinity immunoglobulin gamma Fc region receptor II-b
NCBI Official Synonym Full Names	Fc fragment of IgG receptor IIb
NCBI Official Symbol	FCGR2B
NCBI Official Synonym Symbols	CD32; FCG2; CD32B; FCGR2; IGFR2
UniProt Protein Name	Low affinity immunoglobulin gamma Fc region receptor II-b
UniProt Synonym Protein Names	CDw32; Fc-gamma RII-b; Fc-gamma-RIIb; FcRII-b; CD_antigen: CD32
Protein Family	Low affinity immunoglobulin gamma Fc region receptor
UniProt Gene Name	FCGR2B
UniProt Synonym Gene Names	CD32; FCG2; IGFR2; IgG Fc receptor II-b; Fc-gamma-RIIb; FcRII-b
UniProt Entry Name	FCG2B_HUMAN
NCBI Protein Information	low affinity immunoglobulin gamma Fc region receptor II-b
NCBI Summary for FCGR2B	The protein encoded by this gene is a low affinity receptor for the Fc region of immunoglobulin gamma complexes. The encoded protein is involved in the phagocytosis of immune complexes and in the regulation of antibody production by B-cells. Variations in this gene may increase susceptibilty to systemic lupus erythematosus (SLE). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]

UniProt Comments for FCGR2B	Receptor for the Fc region of complexed or aggregated immunoglobulins gamma. Low affinity receptor. Involved in a variety of effector and regulatory functions such as phagocytosis of immune complexes and modulation of antibody production by B-cells. Binding to this receptor results in down-modulation of previous state of cell activation triggered via antigen receptors on B-cells (BCR), T-cells (TCR) or via another Fc receptor. Isoform IIB1 fails to mediate endocytosis or phagocytosis. Isoform IIB2 does not trigger phagocytosis.
Research Articles on FCGR2B	**1.** The FCGR2B variant leads to reduced serum IL-6, later disease onset and reduced need for biological treatment, but does not seem to aggravate RA. The TM region variant is associated with a lower activation state of the Tregs and naive and memory B cells.
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