

CD32 recombinant antibody

Anti-CD32 [AT130-5], Rat IgG1, kappa

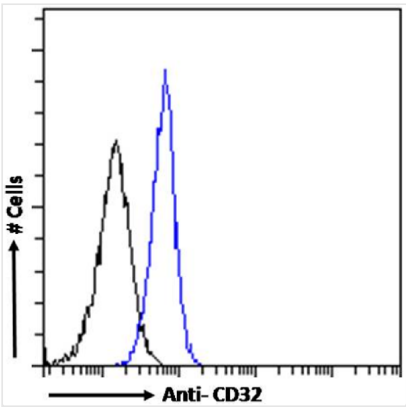
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72431	Rat	Mouse	Immunohistochemistry, Immunofluorescence, Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD32; Monoclonal Recombinant Antibody; Anti-CD32 [AT130-5]; Rat IgG1; kappa; FcgammaRIIB; FcγRIIb; CD32B; CDw32; FCG2; FCGR2; FCGR2B; IGFR2; Immunoglobulin G Fc receptor II; Low affinity immunoglobulin gamma Fc region receptor II-b; MGC23887; MGC30032; RP11-5K23.6; CD32 recombinant antibody

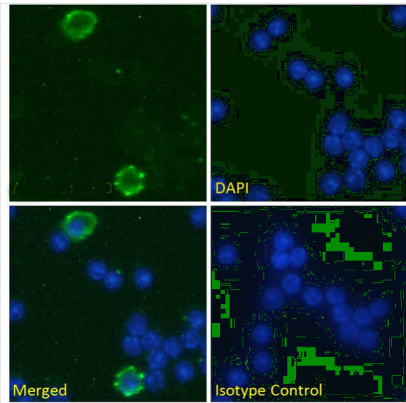
PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat IgG1 kappa
Clone Number	AT130-5
Specificity	This antibody is specific for murine CD32, an Fc gamma surface receptor protein with a low affinity for IgG antibodies that expresses on B cells, monocytes/macrophages, NK cells, granulocytes, mast cells, and dendritic cells. CD32 binds antibody-antigen immune complexes and mediates adaptive immune responses.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for CD32 recombinant antibody	Blocking, IHC (Immunohistochemistry), IF (Immunofluorescence), WB (Western Blot), FCM/FACS (Flow Cytometry)
Chimeric Use Statement	This chimeric rat antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



FCM/FACS (Flow Cytometry)
Flow cytometry using the anti-CD32 antibody AT130-5 (AAA72431). RAW264.7 cells were fixed using 2% PFA and stained with anti-unknown specificity antibody or the rabbit IgG1 version of AT130-5 (AAA72431, blue line) at a dilution of 1:100 for 1 h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG Alexa Fluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

IF (Immunofluorescence)
Immunofluorescence staining of paraformaldehyde fixed mouse (Mus musculus) splenocytes on Shifox coverslips stained with the chimeric rabbit version of AT130-5 (AAA72431) at 10 µg/ml for 1 h followed by Alexa Fluor 488 secondary antibody (1 µg/ml), showing membrane staining in a subset of cells. The nuclear stain is DAPI (blue). Panel shows from left-right, top-bottom Ab01055-23.0*, DAPI, merged channels.



IF (Immunofluorescence)
Immunofluorescence staining of fixed mouse splenocytes with anti-CD32 antibody AT130-5 (AAA72431). Immunofluorescence analysis of paraformaldehyde fixed mouse (Mus musculus) splenocytes on Shifox coverslips, permeabilized with 0.15% Triton stained with the chimeric rabbit version of AT130-5 (AAA72431) at 10 µg/ml for 1 h followed by Alexa Fluor 488 secondary antibody (1 µg/ml), showing membrane staining in a subset of cells. The nuclear stain is DAPI (blue). Panel shows from left-right, top-bottom AAA72431, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for CD32 recombinant antibody	The original antibody was generated by immunizing BALB/c FcγRIIB ^{-/-} mice with FcγRIIB-rat CD4 domain 3/4 fusion protein.
References	Williams et al. Development and characterization of monoclonal antibodies specific for the murine inhibitory FcγRIIB (CD32B). Eur J Immunol. 2012 Aug;42(8):2109-20. doi: 10.1002/eji.201142302. N/A22760702 Note on publication: The original publication focuses on the development and characterization of monoclonal antibodies specific for murine inhibitory FcγRIIB (CD32B).

NCBI AND UNIPROT INFORMATION

NCBI GI #	2506779
NCBI GeneID	14130
UniProt Accession #	P08101; P08102; P12316; P97917; Q60938; Q60939; Q60940; Q61170; Q61558
Molecular Weight	– Da

NCBI Official Full Name	Low affinity immunoglobulin gamma Fc region receptor II
NCBI Official Synonym Full Names	Fc receptor, IgG, low affinity IIb
NCBI Official Symbol	Fcgr2b
NCBI Official Synonym Symbols	CD32; Fcgr2; Fcr-2; Fcr-3; Ly-17; LyM-1; Lym-1; fcRII; FcgRII; Fcgr2a; Ly-m20; AI528646; Fc[g]RII; F630109E10Rik
NCBI Protein Information	low affinity immunoglobulin gamma Fc region receptor II-b; FcgammaRIIB; Fc-gamma-RII; fc-gamma RII; Fc gamma RIIB; fc-gamma-RIIB; fc gamma receptor IIB; lymphocyte antigen 17; igG Fc receptor II beta
UniProt Protein Name	Low affinity immunoglobulin gamma Fc region receptor II
UniProt Gene Name	Fcgr2
UniProt Synonym Gene Names	Fcgr2b; Ly-17; Fc-gamma RII; Fc-gamma-RIIB; FcRII; Ly-17
UniProt Entry Name	FCGR2_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd32-recombinant-antibody-clone-at130-5-immunohistochemistry-immunofluorescence-western-blot-flow-cytometry-elisa/72431>