

CD16/CD32 recombinant antibody

Anti-CD16/CD32 [2.4G2]

CATALOG #	REACTIVITY	APPLICATIONS
AAA71928	Mouse	Immunohistochemistry, Immunoprecipitation, Immunofluorescence, Flow Cytometry, Functional Assay

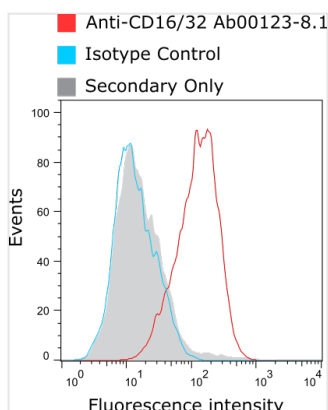
PRODUCT SYNONYMS

CD16/CD32; Anti-CD16/CD32 [2.4G2]; Fcγ₃ III/II Receptor; Low affinity immunoglobulin gamma Fc region receptor III; IgG Fc receptor III; Fc-γ₃ RIII; FcR_{III}; CD16; Low affinity immunoglobulin gamma Fc region receptor II; Fc γ₃ receptor IIB; Fc-γ₃ RII; Fc-γ₃-RIIB; FcR_{II} IgG Fc receptor II beta; Lymphocyte antigen 17; Ly-17; CD32.; CD16/CD32 recombinant antibody

PRODUCT SPECIFICATIONS

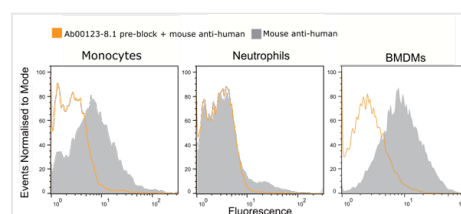
Reactivity	Mouse
Isotype	Rat IgG2b, kappa
Clone Number	2.4G2
Specificity	This antibody binds to an epitope on the extracellular domains of the mouse Fcγ ₃ and Fcγ ₂ , thereby inhibiting their ability to bind antibodies via their Fc region.
Purity/Purification	Protein A Affinity Purified
Sequence Length	261
Applicable Applications for CD16/CD32 recombinant antibody	Blocking, IHC (Immunohistochemistry), IP (Immunoprecipitation), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Buffer Composition	PBS only with 0.02% Proclin 300.
Immunogen	Mouse BALB/c Macrophage J774 Cell Line.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



FCM/FACS (Flow Cytometry)

Anti-CD16/32 staining of murine macrophages Murine bone marrow-derived macrophages (BMDMs) were stained with anti-CD16/32 antibody (as well as isotype control) and bound antibody detected using goat IgG anti-rat IgG (H&L-chain) polyclonal antibody directly conjugated to Alexa Fluor 647 commercially available from a competitor. Compared to the isotype control and secondary-only control, a CD16/32-positive population is apparent.



FCM/FACS (Flow Cytometry)

Blocking of Fc-receptors by anti-CD16/32 antibody. Ex vivo murine (C57BL/6J) monocytes and neutrophils (from zymosan-elicited peritoneal exudate, left and middle panel) as well as bone marrow-derived macrophages (BMDMs, right panel) were stained with a murine anti-human antibody (fluorescently labelled (AF647) human-specific anti-CD16) with or without pre-incubation with anti-mouse CD16/CD32 (Fc-receptors) antibody (clone 2.4G2). Pre-incubation of cells with anti-CD16/CD32 reduced non-specific binding of the fluorescently labelled antibody to all cell types analysed and shows that this anti-CD16/CD32 antibody acts as an Fc-blocking reagent.

ADDITIONAL INFORMATION

Related Product Information for CD16/CD32 recombinant antibody	Recombinant monoclonal antibody to CD16/CD32. Manufactured using a Recombinant Platform with variable regions (i.e. specificity) from the hybridoma 2.4G2.
Product Categories/Family for CD16/CD32 recombinant antibody	FC Blocking; Immunology
References	Unkeless JC. Characterization of a monoclonal antibody directed against mouse macrophage and lymphocyte Fc receptors. J Exp Med. 1979 Sep 19; 150(3):580-96. PMID:90108

NCBI AND UNIPROT INFORMATION

NCBI GI #	119877
NCBI GeneID	14131
UniProt Accession #	P08508; P08101
Molecular Weight	30,036 Da
NCBI Official Full Name	Low affinity immunoglobulin gamma Fc region receptor III
NCBI Official Synonym Full Names	Fc receptor, IgG, low affinity III
NCBI Official Symbol	Fcgr3
NCBI Official Synonym Symbols	CD16
NCBI Protein Information	low affinity immunoglobulin gamma Fc region receptor III
UniProt Protein Name	Low affinity immunoglobulin gamma Fc region receptor III
UniProt Gene Name	Fcgr3
UniProt Synonym Gene Names	IgG Fc receptor III; FcRIII
UniProt Entry Name	FCGR3_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/mouse-recombinant-antibody/cd16-cd32/71928>