

Datasheet for ABIN5668180

Recombinant anti-CD32/CD16 antibody**2** Images[Go to Product page](#)

Overview

Quantity:	200 µg
Target:	CD32/CD16
Reactivity:	Mouse
Host:	Rat
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunofluorescence (IF), Blocking Reagent (BR), Immunohistochemistry (IHC)

Product Details

Immunogen:	Mouse BALB/c Macrophage J774 Cell Line.
Clone:	2-4G2
Isotype:	IgG2b kappa
Specificity:	This antibody binds to an epitope on the extracellular domains of the mouse FcγIII and FcγII, thereby inhibiting their ability to bind antibodies via their Fc region. receptors. Also binding the FcγI receptor (CD64) via its Fc domain.
Characteristics:	OriginalSpeciesName: Rat OriginalFormat: IgG2b
Purification:	Purified antibody.

Target Details

Target:	CD32/CD16
Alternative Name:	CD16/CD32 (CD32/CD16 Products)
Background:	Fcy III/II Receptor, Low affinity immunoglobulin gamma Fc region receptor III, IgG Fc receptor III, Fc-gamma RIII, FcRIII, CD16, Low affinity immunoglobulin gamma Fc region receptor II, Fc gamma receptor IIB, Fc-gamma RII, Fc-gamma-RIIB, FcRII IgG Fc rec
UniProt:	P08508 , P08101

Application Details

Application Notes:	This antibody binds murine Fc Receptors CD16/CD32 and inhibits binding of antibodies to these. It can therefore be used as an Fc-blocking reagent, to reduce non-specific staining of cells by antibodies binding via their Fc-region. A similar effect can be achieved using the Fc Silent range of antibodies made by Absolute Antibody that prevent these interactions at the level of the Fc receptor binding site, which has been mutated to lack affinity for the Fc receptors.
Restrictions:	For Research Use only

Handling

Buffer:	PBS with 0.02 % Proclin 300.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Flow Cytometry

Image 1. Blocking of Fc-receptors by anti-CD16/32 antibody. Ex vivo murine (C57BL6/J) 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.

Flow Cytometry

Image 2. 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(AF647) commercially available from a competitor. Compared to the isotype control and secondary-only control, a CD16/32-positive population is apparent.

