

PE/Cyanine7 Rat anti-Mouse CD16/CD32 mAb

Catalog No.: A29293

Basic Information

Observed MW**Calculated MW****Category**

Primary antibody

Applications

FC

Cross-Reactivity

Mouse

CloneNo number

ATC0076

Conjugate

PE-Cy7. Ex:565nm. Em:778nm.

Background

CD16 is a 50-65 kDa cell surface molecule that exists in two isoforms: a transmembrane form expressed by natural killer (NK) cells, and a glycosylphosphatidylinositol (GPI)-anchored form expressed by granulocytes. It serves as a low-affinity receptor for IgG (FcγRIII) and is a critical mediator of antibody-dependent cellular cytotoxicity (ADCC) by NK cells. CD32 (FcγR2) is a 40 kD transmembrane glycoprotein, member of the immunoglobulin superfamily. The extracellular region of CD32 consists of two Ig C-type domains that binds the Fc region from monomeric IgG with low affinity, but binds immune complexes efficiently. CD32 can mediate phagocytosis of immune complexes and modulate cell activation. CD32 is expressed by Macrophages, neutrophils, mast cells and B cells.

Recommended Dilutions

FC ≤0.25 µg per million cells in
100 µl volume

Immunogen Information

Gene ID

14131/14130

Swiss Prot

P08508/P08101

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

CD32; Fcγr2; Fcγ-2; Fcγ-3; Ly-17; LyM-1; Lym-1; fcRII; FcγRII; Fcγr2a; Ly-m20; Fc[g]RII; F630109E10Rik; CD16

Contact

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Product Information

Source

Rat

Isotype

Rat IgG2b,k

Purification

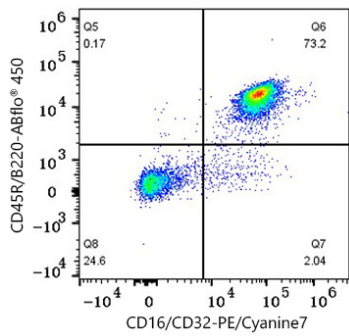
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

Validation Data



Flow cytometry: 1X10⁶ C57BL/6 mouse splenocytes were surface-stained with ABflo® 450 Rat anti-Mouse CD45R/B220 mAb (A27783,0.5 µg) and PE/Cyanine7 Rat anti-Mouse CD16/CD32 mAb (A29293,0.25 µg).