A29293

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PE/Cyanine7 Rat anti-Mouse CD16/CD32 mAb

Catalog No.: A29293

Basic Information

Observed MW

Calculated MW

Category
Monoclonal Antibody

Applications
FC

Cross-Reactivity
Mouse

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 (Fcgr2) 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; Fcgr2; Fcr-2; Fcr-3; Ly-17; LyM-1; Lym-1; fcRII; FcgRII; Fcgr2a; Ly-m20; Fc[g]RII; F630109E10Rik; CD16

Contact

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Product Information

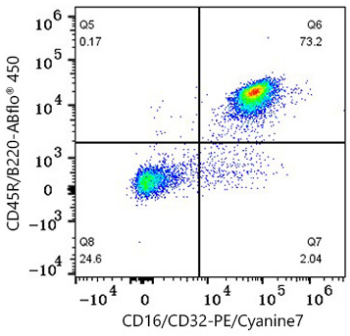
Source
Rat

Isotype
Rat IgG2b,κ

Purification
Affinity purification

Storage
Store at -20℃

Validation Data



Flow cytometry: 1X10^6 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).