

# ABflo® 647 Rat anti-Mouse CD16/CD32 mAb

Catalog No.: A28570

## Basic Information

### Observed MW

### Calculated MW

31 kDa/36 kDa

### Category

Primary antibody

### Applications

FC

### Cross-Reactivity

Mouse

### CloneNo number

ATC0076

### Conjugate

ABflo® 647. Ex:648nm. Em:664nm.

## Recommended Dilutions

**FC** ≤0.25 µg per million cells  
in 100 µl volume

## 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.

## 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

IgG2b, κ

### Purification

Affinity purification

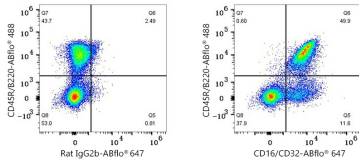
### Storage

Store at 2-8°C. Avoid freeze.

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

## Validation Data

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Flow cytometry:  $1 \times 10^6$  C57BL/6 mouse splenocytes were surface-stained with ABflo® 488 Rat anti-Mouse CD45R/B220 mAb (A27571, 5  $\mu$ l/Test) and ABflo® 647 Rat IgG2b isotype control (5  $\mu$ l/Test, left) or ABflo® 647 Rat anti-Mouse CD16/CD32 mAb (A28570, 0.25  $\mu$ g, right).