

# Mouse CD32/CD16 Antibody

## Purified (Fc Block)

### Monoclonal Antibody

#### Product Information

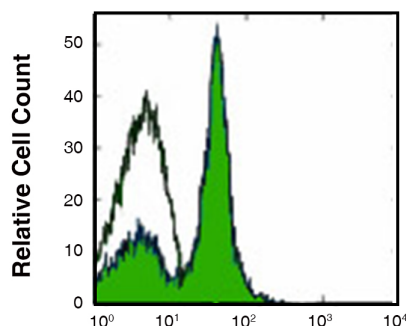
**Product No.:** C247

**Clone:** 2.4G2

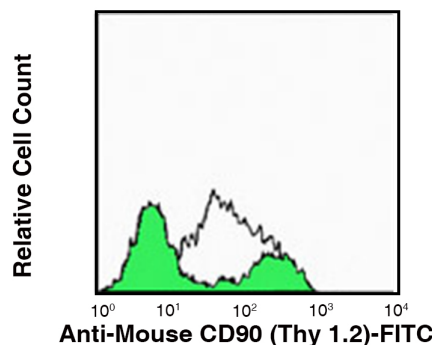
**RRID:** AB\_2829545

**Isotype:** Rat IgG2b

**Storage:** Sterile 2-8°C



Staining of BALB/c splenocytes with Anti-Mouse CD32/16 Purified (green histogram) or Rat IgG1 Isotype Control Purified (open histogram) followed by Goat Anti-Rat IgG (H&L)-FITC.



The green histogram demonstrates the increased resolution of Anti-Mouse CD90 (Thy 1.2)-FITC (clone 30-H12) (Leinco Prod. No.: C285) staining of BALB/c splenocytes in the presence of purified Anti-Mouse CD32/CD16 (Fc UltraBlock). The open histogram shows Anti-Mouse CD90 (Thy 1.2)-FITC staining without Anti-Mouse CD32/CD16 (Fc UltraBlock).

## Product Description

### Specificity:

Clone 2.4G2 recognizes the FcγIII and FcγII receptors.

### Antigen Distribution:

These receptors are present on B cells, monocyte/macrophages, NK cells, neutrophils, mast cells and dendritic cells.

### Background:

CD16 is expressed in two forms: CD16a and CD16b. CD16a (FcγRIIIA) is a 50-65 kD polypeptide-anchored transmembrane protein. CD16b (FcγRIIIB) is a 48 kD GPI-anchored protein whose extracellular domain is over 95% homologous to that of CD16a. CD16 regulates both phagocytosis and antibody-dependent cell-mediated cytotoxicity. It has been reported that CD16 is involved in Natural Killer Cell activation and plays a role in signal transduction. The receptors, CD32 (FcγRIII) and CD16 (FcγRII), are 40-60 kD and bind antibody-antigen immune complexes and mediate adaptive immune responses.

### Known Reactivity Species:

Mouse

### Format:

Purified

### Immunogen:

Sorted pre-B cells

## Formulation

This purified antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

## Purity

>95% by SDS-PAGE and HPLC

## Storage and Stability

This purified antibody is stable when stored at 2-8°C. Do not freeze.

## Product Preparation

Leinco antibodies are manufactured in an animal-free facility using only *In vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

## Pathogen Testing

To protect mouse colonies from infection by pathogens and to assure that experimental preclinical data is not affected by such pathogens, all of Leinco's Purified Functional PLATINUM™ antibodies are tested and guaranteed to be negative for all pathogens in the IDEXX IMPACT I Mouse Profile.

## Applications

### Applications and Recommended Usage (Quality Tested By Leinco):

FC The suggested concentration for this 2.4G2 antibody for staining cells in flow cytometry is  $\leq 1 \mu\text{g}$  per  $10^6$  cells in a volume of 100  $\mu\text{l}$ . Titration of the reagent is recommended for optimal performance for each application.

WB The suggested concentration for this 2.4G2 antibody for use in western blotting is 1-10  $\mu\text{g/ml}$ .

## Country of Origin

USA

## References

- 1.) Titas, J. A. *et al.* (1982) *J. Immunol.* 133:556
- 2.) Rodewald, H. *et al.* (1992) *Cell* 69:139
- 3.) Skyberg, J. A. *et al.* (2020) *Infection and Immunity*. 88: 5 [Journal Link](#)