

# Product Datasheet

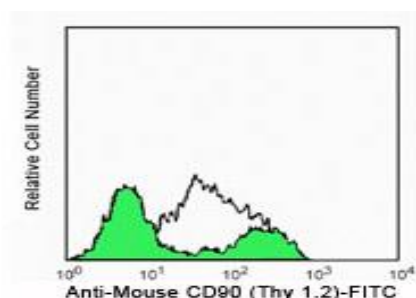
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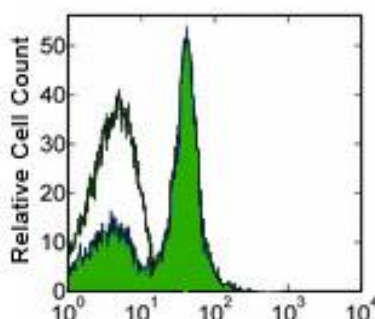
## Anti-Mouse CD32/CD16 (Clone 2.4G2) Purified *in vivo* PLATINUM™ Functional Grade Monoclonal Antibody

### Product Information

**Product No.:** C681  
**Clone:** 2.4G2  
**RRID:** AB\_2829820  
**Isotype:** Rat IgG2b  
**Storage:** Sterile 2-8°C



The green histogram demonstrates the increased resolution of Anti-Mouse CD90 (Thy 1.2)-FITC (clone 3D-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).



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.

### 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 *in vivo* Functional Grade, *in vivo* PLATINUM™

#### Immunogen:

Sorted pre-B cells

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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## Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

## Purity

≥98% monomer by analytical SEC, >95% by SDS Page

## Endotoxin

<0.5 EU/mg as determined by the LAL method

## Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C. **Avoid Repeated Freeze Thaw Cycles.**

## Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using *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 ≤ 1.0 µg per 10<sup>6</sup> cells in a volume of 100 µl. 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 µg/ml.

### Other Applications Reported in Literature:

**PhenoCycler-Fusion (CODEX)®**

**FC Receptor Blocking**

**IP**

**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

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