

Product Datasheet

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Anti-Mouse CD18 [Clone C71/16] — Purified *in vivo* GOLD™ Functional Grade

Monoclonal Antibody

Product Information

Product No.:	C378
Clone:	C71/16
RRID:	AB_2737481
Isotype:	Rat Rat IgG2a
Storage:	Sterile 2-8°C

Product Description

Specificity:

Clone C71/16 recognizes an epitope on mouse CD18.

Antigen Distribution:

The mouse CD18 antigen is present on mouse T-cells, B-cells, NK cells, monocytes, macrophages and granulocytes.

Background:

CD18 is a 95kD type I transmembrane glycoprotein. CD18 is the Integrin $\beta 2$ chain and forms multiple heterodimers with the three integrin α chains, CD11a, CD11b, and CD11c. CD18 binds with CD11a to form LFA-1. LFA-1 is involved in adhesion and binding to antigen presenting cells via interactions with ICAM-1. CD18 binds with CD11b and CD11c forming complement receptors, such as MAC-1, that participate in the innate immune response by recognizing foreign antigen peptides and destroying them via phagocytosis. In humans, lack of functional CD18 causes Leukocyte Adhesion Deficiency (LAD) which is characterized by the inability of circulating leukocytes to respond to foreign bodies, reducing the ability of the immune system to fight off infection.

Known Reactivity Species:

Mouse

Format:

in vivo GOLD™, Purified in vivo Functional Grade

Immunogen:

Cell membrane glycoproteins from mouse T-cell lymphoma BW5147

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.

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

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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

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

Endotoxin

< 1.0 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.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

FC The suggested concentration for this C71/16 antibody for staining cells in flow cytometry is ≤ 1.0 µg per 10⁶ 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 C71/16 antibody for use in western blotting is 1-10 µg/ml.

Other Applications Reported in Literature:

IP

Country of Origin

USA

References

Springer, T. *et al.* (1978) *Eur. J. Immunol.* **8**:539

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