

Product Datasheet

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Anti-Mouse CD11a (LFA-1 α) [Clone FD441.8] — Purified *in vivo* GOLD™ Functional Grade

Monoclonal Antibody

Product Information

Product No.:	C303
Clone:	FD441.8
RRID:	AB_2737475
Isotype:	Rat Rat IgG2b
Storage:	Sterile 2-8°C

Product Description

Specificity:

Clone FD441.8 recognizes an epitope on mouse CD11a.

Antigen Distribution:

CD11a is present on thymocytes, blood lymphocytes, bone marrow cells and certain lymphoma and macrophage-like cell lines.

Background:

LFA-1 α (CD11a) and CD18 are the Integrin alpha-L and beta-2 chains respectively that combine to form LFA-1, a glycoprotein and a member of the Integrin family. Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3, ICAM4 and for F11R. LFA-1 participates in the immunological synapses between CD8⁺ T lymphocytes and antigen-presenting cells. The absence of LFA-1 α or β may induce LAD. The antigen contributes to natural killer cell cytotoxicity, and is involved in various immune phenomena such as leukocyte-endothelial cell interaction, cytotoxic T-cell mediated killing, and antibody dependent killing by granulocytes and monocytes. The CD11b/CD18 antigen is a heterodimeric surface glycoprotein on leukocytes and belongs to the β 2 integrin family. CD11b functions as a receptor for C3bi complement, clotting factor X, fibrinogen and ICAM-1. CD11c forms an α/β heterodimeric glycoprotein (CD11c/CD18 complex) which belongs to the β 2 integrin family. The complex binds fibrinogen and reportedly serves as a receptor for iC3b and ICAM-1. During inflammatory responses, it mediates cell to cell interaction and is important in both monocyte adhesion and chemotaxis.

Known Reactivity Species:

Mouse

Format:

in vivo GOLD™, Purified in vivo Functional Grade

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

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Immunogen:

Cloned CTL B18 cells

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

≥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 FD441.8 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.

Country of Origin

USA

References

1. Suratt, Benjamin T. *et al.* (2009) *J Immunol.* **182**(1): 604–612. [PubMed](#)
2. Wuthrich, R. P. *et al.* (1991) *Cell Immunol.* **144**:22
3. Sanchez-Madrid, F. *et al.* (1983) *J. Exp. Med.* **158**(20):586
4. Pont, S. *et al.* (1986) *J. Immunol.* **136**(10):3750

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