

Product Datasheet

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Anti-Human CD11c Purified Monoclonal Antibody

Product Information

Product No.: C145
Clone: 3.9
RRID: AB_2828512
Isotype: Mouse IgG1
Storage: Sterile 2-8°C

Product Description

Specificity:

Clone 3.9 recognizes the α -chain (CD11c) of the CD11c/CD18 complex. It is specific for the I domain of CD11c. Clone 3.9 binds the activated form of CD11c and partially blocks the binding of CD11c with ICAM-4.

Antigen Distribution:

CD11c is primarily expressed on dendritic cells, NK cells, a subset of intestinal intraepithelial lymphocytes (IEL), and some activated T cells.

Background:

LFA-1 α (CD11a) and CD18 are the Integrin α -L and β -2 chains respectively that combine to form LFA-1, a glycoprotein and a member of the Integrin family. Integrin α -L/ β -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:

Human

Format:

Purified

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.

Storage and Stability

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

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

FC The suggested concentration for this 3.9 antibody for staining cells in flow cytometry is $\leq 2.0 \mu\text{g}$ per 10^6 cells in a volume of 100 μl or 100 μl of whole blood. Titration of the reagent is recommended for optimal performance for each application.>

Other Applications Reported in Literature:

IHC (Frozen)

Country of Origin

USA

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

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References

1. Leukocyte Typing V (1995) Oxford University Press 2. Leukocyte Typing IV (1989) Oxford University Press 3. Leukocyte Typing III (1987) Oxford University Press 4. Hogg, N. *et al.* (1986) *Eur. J. Immunol.* **16**:240 5. Malhotra, V. *et al.* (1986) *Eur. J. Immunol.* **16**:1117

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