Leinco Technologies, Inc.
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Anti-Human CD11b — Biotin

Monoclonal Antibody

Product Information

Product No.:	C134
Clone:	ICRF44
RRID:	AB_2828419
Isotype:	Mouse IgG1

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:
CD11b is expressed on human peripheral blood lymphocytes, NK lymphocytes, monocytes, granulocytes, a subset of T-cells and macrophages.

Background:
LFA-1α (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-1α or ß 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 ß2 integrin family. CD11b functions as a receptor for C3bi complement, clotting factor X, fibrinogen and ICAM-1. CD11c forms an α/ß heterodimeric glycoprotein (CD11c/CD18 complex) which belongs to the ß2 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:
Biotin

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

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

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

FC The suggested concentration for this ICRF44 antibody for staining cells in flow cytometry is ≤ 0.5 µg per 10^6 cells in a volume of 100 µl or 100µl of whole blood. Titration of the reagent is recommended for optimal performance for each application.

Country of Origin
USA

References
1. Leukocyte Typing VI (1996) Oxford University Press 2. Myones, B. L. *et al.* (1988) *J. Clin. Invest.* **82**:640 3. Malhotra, V. *et al.* (1986) *Eur. J. Immunol.* **16**:1117 4. Leukocyte Typing II (1986) Oxford University Press: Code No. M104; III (1987) Oxford University Press: Code No. 202 and 238; IV (1989) Oxford University Press: Code No. M147