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# Anti-Human CD11a
## Purified
### Monoclonal Antibody

## Product Information
**Product No.:** C171
**Clone:** 38
**RRID:** AB_2828771
**Isotype:** Mouse IgG2a
**Storage:** Sterile 2-8°C

## Product Description
**Specificity:**
Clone 38 recognizes an epitope on human CD11a.
**Antigen Distribution:**
CD11a is present on thymocytes, blood lymphocytes, bone marrow cells and certain lymphoma and macrophage-like cell lines.
**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:**
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 38 antibody for staining cells in flow cytometry is ≤ 1 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. Stern, LJ. *et al.* (2005) *Proc Natl Acad Sci U S A.***102**(10):3744-9 PubMed
2. Fliedner, TM *et al.* (1996) *Cytometry.***25**(1):46-57. Article Link


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