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**Antibody to Mouse CD11a (LFA-1)
RAT MONOCLONAL**

Catalog Number: AB-408
Quantity: 500 micrograms, 1 milligram
Format: Lyophilized
Host: Rat
Isotype: IgG2b
Clone: mCD11a
Immunogen: Enriched mouse peritoneal macrophages

Background:

ITGAL encodes the integrin alpha L chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This I-domain containing alpha integrin combines with the beta 2 chain (ITGB2) to form the integrin lymphocyte function-associated antigen-1 (LFA-1), which is expressed on all leukocytes. LFA-1 plays a central role in leukocyte intercellular adhesion through interactions with its ligands, ICAMs 1-3 (intercellular adhesion molecules 1 through 3), and also functions in lymphocyte costimulatory signaling.

Specificity and Preparation:

Rat Anti-Mouse CD11a (LFA-1) is purified by ion exchange column. Protein concentration is 1 mg/ml in PBS (after reconstitution). This antibody was produced in BALB/c mice.

Usage and Storage:

Applications include staining and blocking antibody. For staining, use $10 \mu\text{l}/10^6$ cells. This antibody will block signaling through the CD11a molecule. Titer for blocking should be determined by the investigator.

Reconstitute with sterile H₂O. Mix gently, wash the sides of the vial and wait 30-60 seconds before use. In lyophilized form, store at 4°C. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Antibody is stable for two years lyophilized, one month in solution at 4°C. This material is provided for LABORATORY RESEARCH USE ONLY.