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FITC-labeled Antibody to Mouse CD11b
RAT MONOCLONAL

Catalog Number: AB-409
Quantity: 500 micrograms
Format: Lyophilized
Host: Rat
Isotype: IgG2b
Clone: mCD11b
Immunogen: Purified mouse LN CD4+ T cells

Background:

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 a leukocyte-specific integrin referred to as macrophage receptor 1 ('Mac-1'), or inactivated-C3b (iC3b) receptor 3 ('CR3'). The alpha M beta 2 integrin is important in the adherence of neutrophils and monocytes to stimulated endothelium, and also in the phagocytosis of complement coated particles. Integrin alpha-m/beta-2 is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles. CD11b is identical with CR3, the receptor for the iC3b fragment of the third complement component. CD11b probably recognizes the r-g-d peptide in C3b. Integrin alpha-m/beta-2 is also a receptor for fibrinogen, factor x and icam1. it recognizes p1 and p2 peptides of fibrinogen gamma chain.

Specificity and Preparation:

Rat Anti-Mouse CD11b is conjugated to FITC. Purified by ion exchange column. Protein concentration is 1 mg/ml in PBS (after reconstitution).

Usage and Storage:

Applications include staining and blocking antibody (staining 10 μ l/10⁶ cells). This antibody will block signaling through the CD11a molecule. Titer for blocking should be determined by the investigator.

Reconstitute with H₂O. Mix gently, wash the sides of the vial and wait 30-60 seconds before use.

Store lyophilized material at 4°C. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Material is stable for two years lyophilized, one month in solution at 4°C.