

Monoclonal Antibody to CD11c - FITC

Alternate names:	CD11 antigen-like family member C, ITGAX, Integrin alpha-X, Leu M5, Leukocyte adhesion glycoprotein p150 95 alpha chain, Leukocyte adhesion receptor p150 95
Catalog No.:	AM05514FC-N
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	CD11b is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement coated particles. It is identical to CR3, the receptor for the iC3b fragment of the third complement component. It probably recognizes the RGD peptide in C3b. CD11b is also a receptor for fibrinogen, factor X and ICAM1. It recognizes P1 and P2 peptides of fibrinogen gamma chain. The Mac1 CD11b antigen is present on macrophages, granulocytes, natural killer cells, blood monocytes. CD11b is expressed on 8% spleen cells, 44% bone marrow cells and less than 1% of thymocytes and is commonly used as a microglial marker in nervous tissue.
Uniprot ID:	Q9QXH4
NCBI:	NP_067309.1
GeneID:	16411
Host / Isotype:	Hamster / IgG
Clone:	N418
Immunogen:	Mouse spleen dendritic cells.
Format:	State: Liquid purified IgG Purification: Affinity chromatography on Protein G Buffer System: Phosphate buffered saline pH7.4 containing 0.09% Sodium Azide, 1% Bovine Serum Albumin Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: 1/100; use 10µl of the suggested working dilution to label 10e6 cells in 100µl; The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the murine homologue of human CD11c, which is a 150/90kD member of the beta 2 integrin family. In mice, CD11c is primarily expressed by dendritic cells. Clone N418 has been reported to enhance antigen specific responses when used to target dendritic cells <i>in vivo</i> . Species: Mouse. Other species not tested.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
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- Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
- Caution:** (A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
- General Readings:**
1. Crowley MT, Inaba K, Witmer-Pack MD, Gezelter S, Steinman RM. Use of the fluorescence activated cell sorter to enrich dendritic cells from mouse spleen. J Immunol Methods. 1990 Oct 4;133(1):55-66. PubMed PMID: 2145370.
 2. Metlay JP, Witmer-Pack MD, Agger R, Crowley MT, Lawless D, Steinman RM. The distinct leukocyte integrins of mouse spleen dendritic cells as identified with new hamster monoclonal antibodies. J Exp Med. 1990 May 1;171(5):1753-71. PubMed PMID: 2185332.
 3. Wang, H. et al. (2000) Rapid antibody responses by low-dose, single-step dendritic cell-targeted immunization. Proc. Natl. Acad. Sci.97: 847 - 852.

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