

Monoclonal Antibody to CD11a / ITGAL - PE

Alternate names:	CD11 antigen-like family member A, Integrin alpha-L, LFA-1, LFA1, Leukocyte adhesion glycoprotein LFA-1 alpha chain, Leukocyte function-associated molecule 1 alpha chain
Catalog No.:	AM05207RP-N
Quantity:	100 Tests
Concentration:	Lot specific
Background:	CD11a, Leukocyte Function Antigen-1 (LFA-1) complex is a heterodimeric glycoprotein consisting of two non-covalently linked chains, a 180 kDa alpha chain and a 95 kDa beta chain. It is a member of the integrin supergene family of adhesion molecules, and is on virtually all peripheral blood leukocytes. The molecule binds to ICAM-1, 2 and 3 and mediates cell-cell adhesion.
Uniprot ID:	P20701
NCBI:	NP_002200.2
GeneID:	3683
Host / Isotype:	Mouse / IgG2a
Clone:	OFYS
Format:	State: Liquid purified IgG fraction. Buffer System: PBS containing 0.2% protein carrier and 0.08% Sodium Azide as preservative. Label: PE
Applications:	Flow Cytometry. Characterization of LFA-1 immunodeficiency. Monitoring of subsets in peripheral blood. Graft-versus-host disease. Analysis of CTL-mediated cytotoxicity. Studies of transplantation rejection. Functional studies of cell adhesion molecules. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with LFA-1 alpha. This antibody blocks cell-cell adhesion and adhesion mediated events such as cell mediated cytotoxicity. Species: Human. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C. Do Not Freeze! Shelf life: One year from despatch.

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
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

General Readings:

1. Pedrinaci S, Ruiz-Cabello F, Gomez O, Collado A, Garrido F. Protein kinase C-mediated regulation of the expression of CD14 and CD11/CD18 in U937 cells. *Int J Cancer*. 1990 Feb 15;45(2):294-8. PubMed PMID: 1689274.
2. Hartnell A, Moqbel R, Walsh GM, Bradley B, Kay AB. Fc gamma and CD11/CD18 receptor expression on normal density and low density human eosinophils. *Immunology*. 1990 Feb;69(2):264-70. PubMed PMID: 1968426.
3. Arnaout MA. Leukocyte adhesion molecules deficiency: its structural basis, pathophysiology and implications for modulating the inflammatory response. *Immunol Rev*. 1990 Apr;114:145-80. PubMed PMID: 1973407.
4. Heiskala MK, Patarroyo M, Timonen TT. Participation of CD11a-c/CD18 and RGD-recognizing adhesion molecules in the binding of LGL to fibroblasts. Evidence for the role of CD11a in the fibroblast-mediated inactivation of NK cells. *Scand J Immunol*. 1990 Aug;32(2):137-47. PubMed PMID: 1697097.
5. van Dijken PJ, Ghayur T, Mauch P, Down J, Burakoff SJ, Ferrara JL. Evidence that anti-LFA-1 in vivo improves engraftment and survival after allogeneic bone marrow transplantation. *Transplantation*. 1990 May;49(5):882-6. PubMed PMID: 2186521.
6. Patarroyo M, Prieto J, Rincon J, Timonen T, Lundberg C, Lindbom L, et al. Leukocyte-cell adhesion: a molecular process fundamental in leukocyte physiology. *Immunol Rev*. 1990 Apr;114:67-108. PubMed PMID: 1973408.
7. Leukocyte Adhesion Deficiency: an inherited defect in Mac-1, LFA-1, and p150,95 glycoproteins Anderson DC and Springer TA, *Ann Rev Med* 1987;38:175

Protocols:**PBMC:**

Add 10 ul of MAB/10e6 PBMC in 100 ul PBS.

Mix gently and incubate for 15 minutes at 2-8°C.

Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.

WHOLE BLOOD:

Add 10 ul of MAB/100 ul of whole blood.

Mix gently and incubate for 15 minutes at room temperature (20°C).

Lyse the whole blood.

Wash once with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.

See instrument manufacturers instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope.

Pictures:

Figure 1. Peripheral Blood Lymphocytes stained with PE labelled anti-CD11a antibody (AM05207RP-N).

