



CELL LAB Rat Anti-Mouse CD11a (LFA-1 α)

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732030	Purified (UNLB) Antibody	0.5 mg
732031	Fluorescein (FITC) Conjugate	0.5 mg
732032	Biotin (BIOT) Conjugate	0.5 mg
732033	Phycoerythrin (PE) Conjugate	0.1 mg
733267	Phycoerythrin (PE) Conjugate	0.2 mg

For Laboratory Use Only

DESCRIPTION

Clone: I21/7
Isotype: Rat (Lewis) IgG2a κ
Specificity: α subunit (Mr 180 kDa) of LFA-1

Monoclonal antibody I21/7 reacts with the α subunit of mouse CD11a, also known as Leukocyte Function-associated Antigen-1 (LFA-1) and a member of the integrin family of cell adhesion molecules^{1,2} The antigen is expressed on thymocytes, T and B lymphocytes, and on non-lymphoid cells in the bone marrow.² CD11a appears to be an essential component for T-cell activation by antigen-presenting cells and is important for cell-mediated killing. Co-stimulatory signaling by LFA-1 is achieved by pairing with its ligand, CD54/ICAM-1.^{1,2}

APPLICATIONS

- Flow cytometry^{1,3,4}
- Immunoprecipitation^{1,2}
- Immunohistochemistry (acetone-fixed, frozen sections only)
- Immunoblotting¹

CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using flow cytometry.

WORKING DILUTIONS

Flow Cytometry:

FITC conjugate	$\leq 1 \mu\text{g}/10^6$ cells
BIOT conjugate	$\leq 1 \mu\text{g}/10^6$ cells
PE conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells

Other Applications: Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.

- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.
- The phycoerythrin (PE) conjugates are supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent.
- Protect fluorochrome-conjugated forms from light. Do not freeze.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Minimize exposure of reagent to light during storage or incubation.
5. Avoid microbial contamination of reagent or erroneous results may occur.
6. Use Good Laboratory Practice (GLP) when handling this reagent.
7. Harmful if swallowed.
8. After contact with skin, wash immediately with plenty of water.
9. Contains sodium azide. Sodium azide under acidic conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, immediately wash excessively with water.

TRADEMARKS

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For additional information or if damaged product is received, contact your local Beckman Coulter Representative.

REFERENCES

1. Altin JG, Pagler EB and Parish CR. 1994. Evidence for cell surface association of CD2 and LFA-1 (CD11a/CD18) on T lymphocytes. *Eur J Immunol*, 24:450-457.
2. Springer TA, Davignon D, Ho MK, Kurzinger K, Martz E and Sanchez-Madrid F. 1982. LFA-1 and Lym-2, 3, molecules associated with T lymphocyte-mediated killing; and Mac-1, an LFA-1 homologue associated with complement receptor function. *Immunol Rev*, 68:171-195.
3. Makino M, Yoshimatsu K, Azuma M, Okada Y, Hitoshi Y, Yagita H, Takatsu K and Komuro K. 1995. Rapid development of murine AIDS is dependent of signals provided by CD54 and CD11a. *J Immunol*, 155:974-981.
4. Connolly MK, Kitchens EA, Chan B, Jardieu P and Wofsy D. 1994. Treatment of murine lupus with monoclonal antibodies to lymphocyte function-associated antigen-1: dose-dependent inhibition of autoantibody production and blockade of the immune response to therapy. *Clin Immunol Immunopathol*, 72:198-203.



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