



CELL LAB Rat Anti-Mouse CD107b (LAMP-2)

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732530	Purified (UNLB) Antibody	0.5 mg
732531	Fluorescein (FITC) Conjugate	0.5 mg
732532	Allophycocyanin (APC) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: ABL-93
Isotype: Rat (Sprague-Dawley) IgG2a κ
Immunogen: Glycoproteins purified from BALB/c mouse embryo 3T3 cell line¹
Specificity: Murine CD107b/LAMP-2 (Mr 110-120 kDa with a core protein of Mr ~40 kDa)

CD107b, also known as lysosomal-associated membrane protein 2 (LAMP-2), is a heavily glycosylated, type I transmembrane protein that constitutes one of the two major sialoglycoproteins on lysosomal membranes that can be used to distinguish lysosomes from other organelles.¹ CD107b is similar in structure to Mac-1 and is expressed primarily on epithelial cells and macrophages in a variety of organs in normal and Beige mutant mice.²

APPLICATIONS

- Flow cytometry
- Immunohistochemistry (acetone-fixed, frozen tissue sections only)^{2,3}
- Immunoprecipitation²
- Western Blotting

CHARACTERIZATION

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

WORKING DILUTIONS

Flow Cytometry:

Purified antibody	$\leq 1 \mu\text{g}/10^6$ cells
FITC conjugate	$\leq 1 \mu\text{g}/10^6$ cells
APC 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 allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/ NaN_3 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

The Beckman Coulter logo is a trademark of Beckman Coulter, Inc.

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

REFERENCES

1. Chen JW, Pan W, D'Souza MP and August JT. 1985. Lysosome-associated membrane proteins: characterization of LAMP-1 of macrophage P388 and mouse embryo 3T3 cultured cells. *Arch Biochem Biophys*, 239:574-586.
2. Chen JW, Chen GL, D'Souza MP, Murphy TL and August JT. 1986. Lysosomal membrane glycoproteins: properties of LAMP-1 and LAMP-2. *Biochem Soc Symp*, 51:97-112.
3. Furuta K, Yang XL, Chen JS, Hamilton SR and August JT. 1999. Differential expression of the lysosome-associated membrane proteins in normal human tissues. *Arch Biochem Biophys*, 365:75-82.



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