

Technical Data Sheet

FITC Rat Anti-Mouse CD107b

Product Information

Material Number:	558758
Alternate Name:	LAMP-2
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	ABL-93
Immunogen:	Glycoproteins purified from BALB/c mouse embryo 3T3 cell line
Isotype:	Rat (SD) IgG2a, λ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The ABL-93 antibody recognizes CD107b (Lysosome-Associated Membrane Protein 2, LAMP-2), one of the two major glycoproteins in lysosome membranes which are useful markers to distinguish lysosomes from other organelles. Mouse CD107b consists of a ~40-kDa core protein which is heavily glycosylated to form heterogeneous mature glycoprotein of 110-120 kDa, and it is closely related or identical to the macrophage antigen Mac-3. It is principally expressed in epithelial cells and macrophages in a variety of organs in normal and Beige mutant mice.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

Application Notes

Application

Intracellular staining (flow cytometry)	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
554714	BD Cytotfix/Cytoperm™ Fixation/Permeabilization Kit	250 tests	(none)
557077	FITC Rat IgG2a, λ Isotype Control	0.25 mg	B39-4

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
5. An isotype control should be used at the same concentration as the antibody of interest.

References

Cha Y, Holland SM, August JT. The cDNA sequence of mouse LAMP-2. Evidence for two classes of lysosomal membrane glycoproteins. *J Biol Chem.* 1990; 265(9):5008-5013. (Biology)

Chen JW, Chen GL, D'Souza MP, Murphy TL, August JT. Lysosomal membrane glycoproteins: properties of LAMP-1 and LAMP-2. *Biochem Soc Symp.* 1986; 51:97-112. (Biology)

Chen JW, Murphy TL, Willingham MC, Pastan I, August JT. Identification of two lysosomal membrane glycoproteins. *J Cell Biol.* 1985; 101(1):85-95. (Immunogen)

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