

## Monoclonal Antibody to CD107b / LAMP2 - FITC

<b>Alternate names:</b>	LAMP-2, LAMP-2C, LAMPB, Lysosome-associated membrane glycoprotein 2
<b>Catalog No.:</b>	AM08088FC-N
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	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. (Ref.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. (Ref.2)
<b>Uniprot ID:</b>	<a href="#">P17047</a>
<b>NCBI:</b>	<a href="#">NP_001017959.1</a>
<b>GeneID:</b>	<a href="#">16784</a>
<b>Host / Isotype:</b>	Rat / IgG2a
<b>Clone:</b>	ABL-93
<b>Immunogen:</b>	Glycoproteins purified from BALB/c mouse embryo 3T3 cell line. (Ref.1)
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	<b>Flow Cytometry:</b> < / = 1 µg/10e6 cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody is specific to CD107b/LAMP-2 (Mr 110-120 kDa with a core protein of Mr ~40 kDa). <b>Species:</b> Mouse. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Chen, J.W., W. Pan, M.P. d'Souza and J.T. August. 1985. Arch. Biochem. Biophys. 239:574-586. 2. Chen, J.W., G.L. Chen, M.P. d'Souza T.L. Murphy, and J.T. August. 1986. Biochem. Soc. Symp. 51:97-112. 3. Fukuda, M. 1991. J. Biol. Chem. 266:21327-21330.

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

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4. Kannan, K., R.M. Stewart, W. Buunds, S.R. Carlsson, M. Fukuda, K.W. Betzing, and R.F. Hollcombe. 1996. Cell. Immunol. 171:10-19.
5. Furuta, K., X.L. Yang, J.S. Chen, S.R. Hamilton, and T.J. August. 1999. Arch. Biochem. Biophys. 365:75-82.