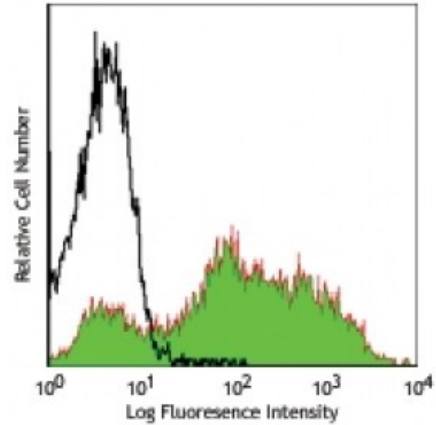


Alexa Fluor® 488 anti-mouse CD107b (Mac-3)

Catalog # / Size: 1142550 / 100 µg
Clone: M3/84
Isotype: Rat IgG1, κ
Immunogen: Membrane glycoproteins from C57BL/6 mouse peritoneal exudate cells
Reactivity: Mouse
Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal conditions.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5



Thioglycolate-elicited BALB/c mouse peritoneal macrophages stained with M3/84 Alexa Fluor® 488

Applications:

Applications: Immunofluorescence

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 microg per 10⁶ cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation¹⁻⁴ and immunohistochemical staining of acetone-fixed frozen sections^{5,6} and paraformaldehyde-fixed paraffin-embedded sections⁹⁻¹¹.

- Application References:**
1. Springer TA. 1981. *J. Biol. Chem.* 256:3833. (IP)
 2. Ho MK, *et al.* 1983. *J. Biol. Chem.* 258:636. (IP)
 3. Chen JW, *et al.* 1985. *J. Cell Biol.* 101:85. (IP)
 4. Ralph P, *et al.* 1983. *J. Immunol.* 130:108. (IP)
 5. Flotte TJ, *et al.* 1983. *Am. J. Pathol.* 111:112. (IHC)
 6. Kano M, *et al.* 1998. *Transplantation* 65:837. (IHC)
 7. Terrazas LI, *et al.* 2005. *Int J Parasitol.* 35:1349. [PubMed](#)
 8. Hayashida A, *et al.* 2011. *J. Biol Chem.* 286:3288. [PubMed](#)
 9. Vollmar P, *et al.* 2010. *J. Immunol.* 185:6338. (IHC)
 10. Odorisio T, *et al.* 2002. *J. Cell Sci.* 115:2559. (IHC)
 11. Nessler S, *et al.* 2007. *Brain* 130:2186. (IHC)

Description: Mac-3 is a 110 kD type I membrane glycoprotein, also known as CD107b and LAMP-2. It is expressed on lysosomal membranes and the plasma membrane of macrophages and some myeloid cell lines. In the bone marrow, few cells display Mac-3 antigen on the surface, but a large proportion express Mac-3 in the cytoplasm. CD107b has been identified as a ligand for galactin, an S-type lectin present in the extracellular matrix. Mac-3/CD107b is upregulated in some tumors and increased expression has been correlated with enhanced metastatic

potential.

- Antigen**
References:
1. Springer TA. 1981. *J. Biol. Chem.* 256:3833.
 2. Ho MK, *et al.* 1983. *J. Biol. Chem.* 258:636.
 3. Ralph P, *et al.* 1983. *J. Immunol.* 130:108.