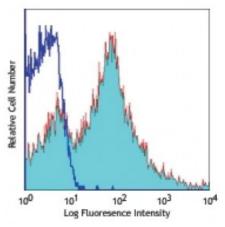
## **Product Data Sheet**

## Alexa Fluor® 647 anti-mouse CD107b (Mac-3)

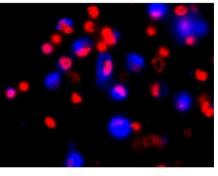
Catalog # / Size:	1142555 / 25 μg 1142560 / 100 μg
Clone:	M3/84
Isotype:	Rat IgG1, к
Immunogen:	Membrane glycoproteins from C57BL/6 mouse peritoneal exudate cells
<b>Reactivity:</b>	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Concentration:</b>	0.5



Thioglycollate-elicited BALB/c mouse peritoneal macrophages stained with M3/84 Alexa Fluor® 647

## **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 10 <sup>6</sup> cells in 100 microL volume. For immunofluorescence microscopy, a concentration range of 5- 10 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor® 647 has a maximum	Thioglycolate-or mouse periton with 2% parafo 10 minutes an
	emission of 668 nm when it is excited at 633nm / 635nm.	FBS for 30 min were stained w
Application Notes:	Additional reported applications (for the relevant formats) include: immunoprecipitation <sup>1-4</sup> and immunohistochemical staining of acetone-fixed frozen sections <sup>5,6</sup> and paraformaldehyde-fixed paraffin-embedded sections <sup>9-11</sup> .	anti-mouse CD M3/84) Alexa F
Application References:	<ol> <li>Springer TA. 1981. J. Biol. Chem. 256:38.</li> <li>Ho MK, et al. 1983. J. Biol. Chem. 258:63.</li> <li>Chen JW, et al. 1985. J. Cell Biol. 101:85.</li> <li>Ralph P, et al. 1983. J. Immunol. 130:108.</li> <li>Flotte TJ, et al. 1983. Am. J. Pathol. 111:16.</li> <li>Kano M, et al. 1998. Transplantation 65:87.</li> <li>Terrazas LI, et al. 2005. Int J Parasitol. 35:</li> </ol>	6. (IP) (IP) 3. (IP) L12. (IHC) 837. (IHC)



ioglycolate-elicited C57BL/6 puse peritoneal cells were fixed th 2<sup>9</sup> paraformaldehyde (PFA) for minutes and blocked with 5% S for 30 minutes. Then the cells ere stained with 10 microg/ml of ti-mouse CD107b (Mac-3) (clone 8/84) Alexa Fluor&r

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Hayashida A, *et al.* 2011. *J. Biol Chem.* 286:3288. <u>PubMed</u>
 Vollmar P, *et al.* 2010. *J. Immunol.* 185:6338. (IHC)
 Odorisio T, *et al.* 2002. *J. Cell Sci.* 115:2559. (IHC)
 Nessler S, *et al.* 2007. *Brain* 130:2186. (IHC)
 Tay SS, *et al.* 2014. *PNAS.* 111:2540. <u>PubMed</u>

**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 galaptin, 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	1. Springer TA. 1981. J. Biol. Chem. 256:3833.	
<b>References:</b>	2. Ho MK, <i>et al.</i> 1983. <i>J. Biol. Chem.</i> 258:636.	

3. Ralph P, et al. 1983. J. Immunol. 130:108.