## Biotin anti-mouse CD107b (Mac-3)

Catalog # / Size:	1142540 / 500 μg	
Clone:	M3/84	al. I
Isotype:	Rat IgG1, κ	- MN W
Immunogen:	Membrane glycoproteins from C57BL/6 mouse peritoneal exudate cells	Reative Coll Number
<b>Reactivity:</b>	Mouse	- A have
Preparation:	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions.	10 <sup>0</sup> 10 <sup>1</sup> 10 <sup>2</sup> 10 <sup>3</sup> 10 <sup>4</sup> Log Fluoresence Intensity
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.	Thioglycollate-elicited BALB/c
Workshop Number:	750 under optimal conditions.	mouse peritoneal macrophages stained with biotinylated M3/84, followed by Sav-PE
Concentration:	0.5	· · · · · · · · · · · · · · · · · · ·

## **Applications:**

Applications:	Flow Cytometry, Immunohistochemistry	
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 $\leq 0.25 \ \mu g \ per \ 10^6 \ cells$ in 100 $\mu$ l volume. It is recommended that the reagent be titrated for optimal performance for each application.	
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-</sup> <sup>11</sup> .	
Application References:	<ol> <li>Springer TA. 1981. J. Biol. Chem. 256:3833. (IP)</li> <li>Ho MK, et al. 1983. J. Biol. Chem. 258:636. (IP)</li> <li>Chen JW, et al. 1985. J. Cell Biol. 101:85. (IP)</li> <li>Ralph P, et al. 1983. J. Immunol. 130:108. (IP)</li> <li>Flotte TJ, et al. 1983. Am. J. Pathol. 111:112. (IHC)</li> <li>Kano M, et al. 1998. Transplantation 65:837. (IHC)</li> <li>Terrazas LI, et al. 2005. Int J Parasitol. 35:1349. PubMed</li> <li>Hayashida A, et al. 2011. J. Biol Chem. 286:3288. PubMed</li> <li>Vollmar P, et al. 2010. J. Immunol. 185:6338. (IHC)</li> <li>Odorisio T, et al. 2007. Brain 130:2186. (IHC)</li> </ol>	
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.	

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

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