Biotin anti-mouse CD107b (Mac-3)

Catalog # / 1142540 / 500 μg

Size:

Clone: M3/84

Isotype: Rat IgG1, κ

Immunogen: Membrane glycoproteins from

C57BL/6 mouse peritoneal exudate

cells

Reactivity: Mouse

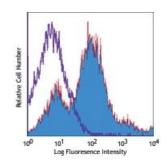
Preparation: The antibody was purified by affinity

chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.5



Thioglycollate-elicited BALB/c mouse peritoneal macrophages stained with biotinylated M3/84,

followed by Sav-PE

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 ≤ 0.25 microg per 10^6 cells in 100 microL 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:

immunoprecipitation¹⁻⁴ and immunohistochemical staining of acetone-fixed frozen sections^{5,6} and paraformaldehyde-fixed paraffin-embedded sections⁹

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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)

Flotte TJ, et al. 1983. Am. J. Pathol. 111:112. (IHC)
 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 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.
2. Ho MK, et al. 1983. *J. Biol. Chem.* 258:636.
3. Ralph P, et al. 1983. *J. Immunol.* 130:108.