SONY

Product Data Sheet

Alexa Fluor® 647 anti-mouse/human Mac-2 (Galectin-3)

Catalog # / Size: 1227040 / 100 µg

Clone: M3/38

Isotype: Rat IgG2a, κ

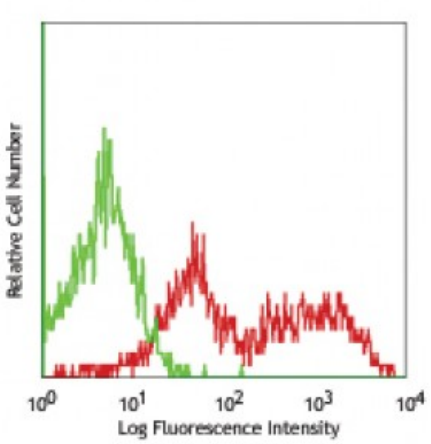
Immunogen: Raised against galectin-3 of mouse origin

Reactivity: Human,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.

Concentration: 0.5



Thioglycolate-elicited BALB/c mouse peritoneal macrophages stained with M3/38 Alexa Fluor® 647

Applications:

Applications: Flow Cytometry

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 ≤0.06 microg per million cells in 100 microL volume. For immunohistochemical staining on formalin-fixed paraffin-embedded tissue sections, a concentration range of 5-10 microg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of paraffin-embedded tissue sections[3-6], Western blotting2, immunoprecipitation[1,2], immunofluorescence[7,8], and ELISA[9].

Clone M3/38 has been reported to recognize residues 48-100 in the amino-terminal domain of galectin-3.[7]

Application References:

1. Ho MK. and Springer TA. 1982. *J. Immunol.* 128:1221. (FC, IP)
2. Rosenberg I, *et al.* 1991. *J. Biol. Chem.* 266:18731. (WB, IP)
3. Evans CE, *et al.* 2010. *Arterioscler Vasc Biol.* (IHC) PubMed
4. Jacob N, *et al.* 2011. *J. Immunol.* 186:4984. (IHC) PubMed
5. Li X, *et al.* 2011. *Am J Physiol Heart Circ Physiol.* 301:1932. (IHC) PubMed
6. Chao C, *et al.* 2012. *Clin Cancer Res.* 18:4702. (IHC) PubMed
7. Melo FH, *et al.* 2011. *PLoS One.* 6:e29313. (IF)
8. Usategui A, *et al.* 2013. *Ann Rheum Dis.* PubMed (IF)
9. Mey A, *et al.* 1996. *J. Immunol.* 156:1572. (ELISA)
10. Kouo T, *et al.* 2015. *Cancer Immunol Res.* 3:412. PubMed

Description: Galectins, a family of carbohydrate binding proteins (lectins) have been implicated in inflammation and cancer. All galectins bind lactose and other β-galactosides but differ in their affinity for more complex saccharides.

Antigen References:
1. Ho MK. and Springer TA. 1982. *J. Immunol.* 128:1221.
2. Rosenberg I, *et al.* 1991. *J. Biol. Chem.* 266:18731.