

Product Data Sheet

Alexa Fluor® 488 anti-mouse F4/80

Catalog # / Size: 123119 / 25 µg
123120 / 100 µg

Clone: BM8

Isotype: Rat IgG2a, κ

Immunogen: Murine macrophages

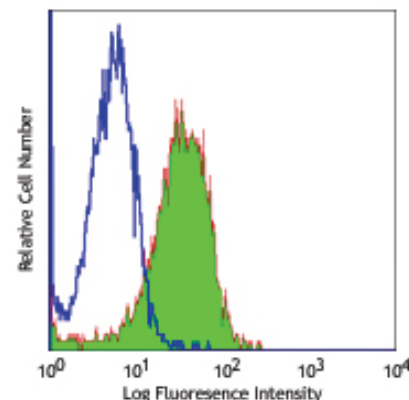
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Thioglycolate-elicited Balb/c mouse peritoneal macrophages stained with BM8 Alexa Fluor® 488

Applications:

Applications: FC - Quality tested
IHC - Validated

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 1.0 µg per 10⁶ cells in 100 µl. 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.

** Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections^{1,2} and Western blotting.

Application References:

- Schaller E, et al. 2002. *Mol. Cell. Biol.* 22:8035. (IHC)
- Steveva L, et al. 2001. *BMC Clin Pathol.* 1:3. (IHC)
- Kobayashi M, et al. 2008. *J. Leukocyte Biol.* 83:1354. PubMed
- Poeckel D, et al. 2009. *J. Biol Chem.* 284:21077. PubMed

Description: F4/80 is a 160 kD glycoprotein. It is characterized as a member of the epidermal growth factor (EGF)-transmembrane 7 (TM7) family. F4/80, also known as EMR1 or Ly71, has been widely used as a murine macrophage marker, which is expressed on majority of tissue macrophages including peritoneal macrophages, macrophages in lung, gut, thymus and red pulp of spleen (but not on the macrophages located in T cell areas of the spleen, lymph node and Peyer's patch), Kuffer cells, Langerhans cells, bone marrow stromal cells. F4/80 has also been shown on a subset of dendritic cells. The biological ligand of F4/80 has not been identified, but it has been reported that F4/80 is required for induction of CD8 T cells-mediated peripheral tolerance.

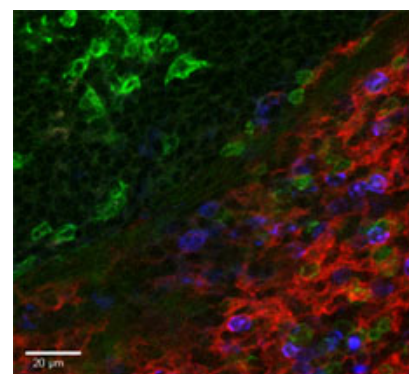
Antigen References:

- Austy JM and Gordon S. 1981. *Eur. J. Immunol.* 11:805.
- Hume DA, et al. 1983. *J. Exp. Med.* 158:1522.
- Ruedl C, et al. 1996. *Eur. J. Immunol.* 26:1801.
- McKnight AJ, et al. 1996. *J. Biol. Chem.* 271:486.
- Lin HH, et al. 2005. *J. Exp. Med.* 201:1615.

Related Products: Product
Cell Staining Buffer

Clone

Application
FC, ICC, ICFC



Fixed whole mount mouse spleen was stained with Alexa Fluor® 488 F4/80 (red) (clone BM8), Brilliant Violet 421™ CD3ε (green) (clone 145-2C11), and PE CD11b (blue) (clone M1/70). Isotype controls at the same concentrations were used for the negative control. Cells were mounted in Prolong Gold and imaged with a Leica SP8 confocal. Image courtesy of Grzegorz Chodaczek and Zbigniew Mikulski at LIAI.



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Alexa Fluor® 488 Rat IgG2a, κ Isotype Ctrl
TruStain fcX™ (anti-mouse CD16/32)

RTK2758
93

FC, ICFC
FC



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