

Alexa Fluor® 700 anti-mouse F4/80

Catalog # / Size: 123129 / 25 µg
123130 / 100 µg

Clone: BM8

Isotype: Rat IgG2a, κ

Immunogen: Murine macrophages

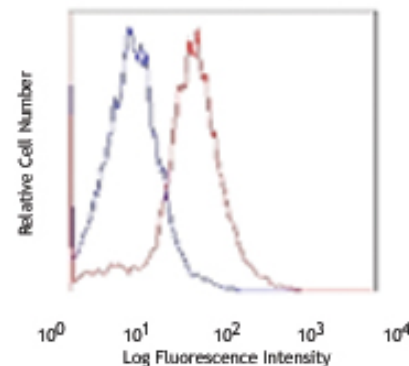
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 700.

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 peritoneal macrophages stained with BM8 Alexa Fluor® 700

Applications:

Applications: FC - Quality tested

Recommended Usage: This reagent is developed for immunofluorescent staining for flow cytometric analysis; the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is highly recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

** Alexa Fluor® 700 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 700 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)
- Steveceva 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	Clone	Application
	Alexa Fluor® 700 Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	TruStain fcX™ (anti-mouse CD16/32)	93	FC



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