

## Biotin anti-mouse F4/80

**Catalog # / Size:** 123105 / 50 µg  
123106 / 500 µg

**Clone:** BM8

**Isotype:** Rat IgG2a, κ

**Immunogen:** Murine macrophages

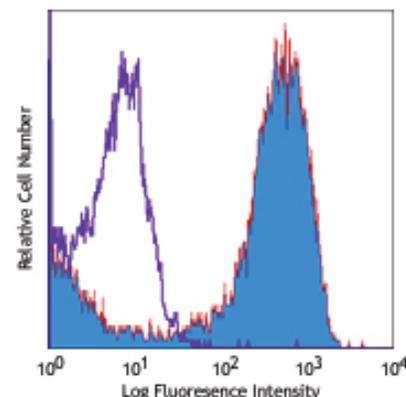
**Reactivity:** Mouse

**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 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 biotinylated BM8, followed by Sav-PE*

## Applications:

**Applications:** FC - Quality tested  
IHC - Reported in the literature

**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 ≤0.25 µg per million cells in 100 µl 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: immunohistochemical staining of acetone-fixed frozen sections<sup>1,2</sup> and Western blotting.

**Application References:**

- Schaller E, *et al.* 2002. *Mol. Cell. Biol.* 22:8035. (IHC)
- Stevceva L, *et al.* 2001. *BMC Clin Pathol.* 1:3. (IHC)
- Kobayashi M, *et al.* 2008. *J. Leukocyte Biol.* 83:1354. PubMed
- Poekel 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
APC Streptavidin		FC, ICFC
APC/Cy7 Streptavidin		FC, ICFC
FITC Streptavidin		FC, ICFC
HRP Streptavidin		ELISA, ELISPOT, IHC, WB
PE Streptavidin		FC, ICFC
PE/Cy5 Streptavidin		FC, ICFC
PE/Cy7 Streptavidin		FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
Biotin Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC
TruStain fcX™ (anti-mouse CD16/32)	93	FC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biollegend.com/ordering#license](http://www.biollegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.