

Product Data Sheet

PE/Cy5 anti-mouse F4/80

Catalog # / Size: 123111 / 25 µg
123112 / 100 µg

Clone: BM8

Isotype: Rat IgG2a, κ

Immunogen: Murine macrophages

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody.

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

Concentration: 0.2 mg/ml

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

Applications:

Applications: FC - *Quality tested*

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.

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

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

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
- Poeckel D, *et al.* 2009. *J. Biol Chem.* 284:21077. PubMed
- Yang RK, *et al.* 2012. *J. Immunol.* 189:2656. 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
PE/Cy5 Rat IgG2a, κ Isotype Ctrl
TruStain fcX™ (anti-mouse CD16/32)

Clone

RTK2758
93

Application

FC, ICC, ICFC
FC, ICFC
FC



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