

Purified anti-mouse F4/80 Recombinant

Catalog # / 1386505 / 50 µg
Size: 1386510 / 500 µg

Clone: QA17A29

Isotype: Mouse IgG1, κ

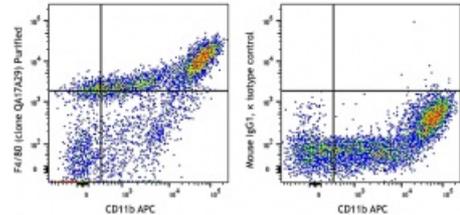
Immunogen: Murine macrophages

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography.

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

Concentration: 0.5 mg/ml



Thioglycolate-elicited Balb/c mouse peritoneal macrophages were stained with purified mouse F4//80 (clone QA17A29, left) or mouse IgG1, κ isotype control (right), followed by anti-mouse IgG1 PE.

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 ≤ 0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

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 the 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, and 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:

- Schaller E, *et al.* 2002. *Mol. Cell. Biol.* 22:8035.
- Stevceva L, *et al.* 2001. *BMC Clin Pathol.* 1:3.
- Kobayashi M, *et al.* 2008. *J. Leukoc. Biol.* 83:1354.
- PoECKel D, *et al.* 2009. *J. Biol Chem.* 284:21077.
- Glass AM, *et al.* 2013. *J. Immunol.* 190:4830.
- Koehm S, *et al.* 2007. *J. Allergy Clin. Immunol.* 120:570.
- Rankin AL, *et al.* 2010. *J. Immunol.* 184:1526.
- Sasi SP, *et al.* 2014. *J Biol Chem.* 289:14178.
- Thakus VS, *et al.* 2014. *Toxicol Lett.* 230:322.
- Ohnishi A, *et al.* 2015. *PLoS One.* 10:117616.