

PE/Fire™ 810 anti-mouse F4/80 Recombinant Antibody

Catalog# / Size	157321 / 25 µg
Clone	QA17A29
Regulatory Status	RUO
Other Names	EMR1, Ly71
Isotype	Mouse IgG1, κ
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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Recombinant
Host Species	Mouse
Immunogen	Murine macrophages
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 810 under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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. * PE/Fire™ 810 has a maximum excitation of 488/561 nm and a maximum emission of 810 nm. Excessive exposure to light, and commonly used fixation, permeabilization buffers can affect PE/Fire™ 810 fluorescence signal intensity and spread. Please keep conjugates protected from light exposure. For more information and representative data, visit our Fire Dyes page.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
RRID	AB_3662371 (BioLegend Cat. No. 157321)

Antigen Details

Structure	A 160 kD glycoprotein and a member of the epidermal growth factor (EGF)-transmembrane 7
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(TM7) family

Distribution	Expressed on the majority of tissue macrophages
Function	Required for induction of CD8 ⁺ T cells-mediated peripheral tolerance
Cell Type	Macrophages, Monocytes
Biology Area	Immunology, Innate Immunity

Antigen References

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

Gene ID [13733](#)

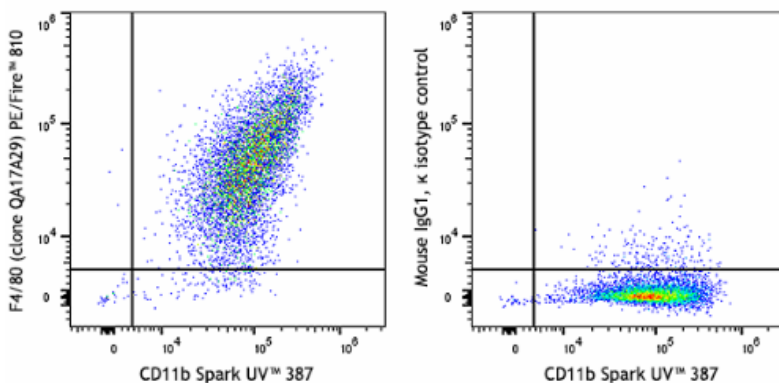
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse F4/80 Recombinant Antibody, PE anti-mouse F4/80 Recombinant Antibody, APC anti-mouse F4/80 Recombinant Antibody, PE/Cyanine7 anti-mouse F4/80 Recombinant Antibody, FITC anti-mouse F4/80 Recombinant Antibody, Spark YG™ 593 anti-mouse F4/80 Recombinant Antibody, APC/Cyanine7 anti-mouse F4/80 Recombinant Antibody, PerCP/Cyanine5.5 anti-mouse F4/80 Recombinant Antibody, Alexa Fluor® 647 anti-mouse F4/80 Recombinant Antibody, PE/Fire™ 640 anti-mouse F4/80 Recombinant Antibody, Spark Red™ 718 anti-mouse F4/80 Recombinant (Flexi-Fluor™) Antibody, PE/Fire™ 810 anti-mouse F4/80 Recombinant Antibody, APC/Fire™ 810 anti-mouse F4/80 Recombinant Antibody

Product Data



Thioglycollate-elicited BALB/c mouse peritoneal macrophages were stained with anti-mouse/human CD11b (clone M1/70) Spark UV™ 387 and anti-mouse F4/80 recombinant (clone QA17A29) PE/Fire™ 810 (left) or mouse IgG1, κ PE/Fire™ 810 isotype control (right).

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