

## PerCP/Fire™ 780 anti-mouse F4/80 Antibody

<b>Catalog# / Size</b>	111705 / 25 µg 111706 / 100 µg
<b>Clone</b>	W20065D
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	EMR1, Ly71
<b>Isotype</b>	Rat IgG2b, κ
<b>Description</b>	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 <sup>+</sup> T cells-mediated peripheral tolerance.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PerCP/Fire™ 780 under optimal conditions.
<b>Concentration</b>	0.2 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . 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.  * PerCP/Fire™ 780 has a maximum excitation of 478 nm and a maximum emission of 780 nm.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>RRID</b>	AB_3662171 (BioLegend Cat. No. 111705) AB_3662171 (BioLegend Cat. No. 111706)

### Antigen Details

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<b>Structure</b>	EGF-TM7 family member, 160 kD glycoprotein
<b>Distribution</b>	Majority of tissue macrophages including peritoneal macrophages, macrophages in lung, gut, thymus and red pulp of spleen, Kuffer cells, Langerhans cells, bone marrow stromal cells, and a subset of dendritic cells

**Function** Induction of immunological tolerance

**Cell Type** Macrophages, Monocytes

**Biology Area** Immunology, Innate Immunity

**Antigen References**

1. Austy JM and Gordon S. 1981. *Eur. J. Immunol.* 11:805.
2. Hume DA, *et al.* 1983. *J. Exp. Med.* 158:1522.
3. Ruedl C, *et al.* 1996. *Eur. J. Immunol.* 26:1801.
4. McKnight AJ, *et al.* 1996. *J. Biol. Chem.* 271:486.
5. Lin HH, *et al.* 2005. *J. Exp. Med.* 201:1615.

**Gene ID** [13733](#)

**Related Protocols**

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

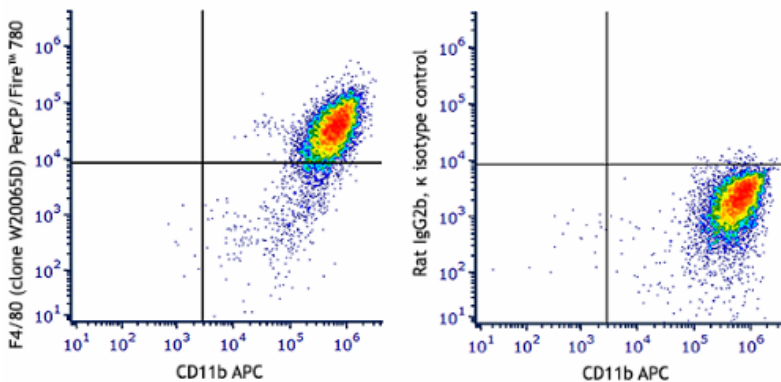
**Other Formats**

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Purified anti-mouse F4/80, PE anti-mouse F4/80, PerCP/Fire™ 780 anti-mouse F4/80, Spark UV™ 387 anti-mouse F4/80 (Flexi-Fluor™), Spark YG™ 581 anti-mouse F4/80 (Flexi-Fluor™), Spark YG™ 593 anti-mouse F4/80 (Flexi-Fluor™) Antibody

**Product Data**

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Thioglycolate-elicited BALB/c mouse peritoneal macrophages were stained with anti-mouse CD11b (clone M1/70) APC and anti-mouse F4/80 (clone W20065D) PerCP/Fire™ 780 (left) or rat IgG2b, κ PerCP/Fire™ 780 isotype control (right).

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