

Spark PLUS UV395™ anti-mouse F4/80 Antibody

Catalog# / Size	111707 / 25 µg 111708 / 100 µg
Clone	W20065D
Regulatory Status	RUO
Other Names	EMR1, Ly71
Isotype	Rat IgG2b, 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	Monoclonal
Host Species	Rat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS UV395™ 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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.
Excitation Laser	Ultraviolet Laser (355 nm)

Antigen Details

Structure	EGF-TM7 family member, 160 kD glycoprotein
Distribution	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](#)

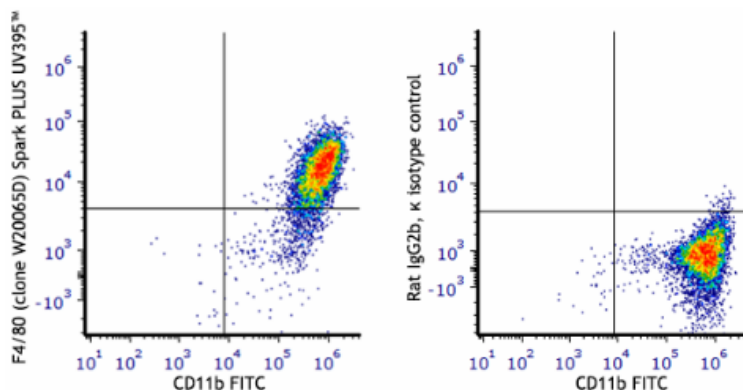
Related Protocols

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

Other Formats

PE anti-mouse F4/80, Purified anti-mouse F4/80, PerCP/Fire™ 780 anti-mouse F4/80, Spark YG™ 581 anti-mouse F4/80 (Flexi-Fluor™), Spark PLUS UV395™ anti-mouse F4/80 Antibody, Spark UV™ 387 anti-mouse F4/80 (Flexi-Fluor™), Spark YG™ 593 anti-mouse F4/80 (Flexi-Fluor™) Antibody

Product Data



Thioglycolate-elicited BALB/c mouse peritoneal macrophages were stained with anti-mouse/human CD11b (clone M1/70) FITC and anti-mouse F4/80 (clone W20065D) Spark PLUS UV395™ (left) or rat IgG2b, κ Spark PLUS UV395™ isotype control (right).

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