F4/80 Antibody – Rat

PRODUCT OVERVIEW

Product Name	F4/80, Antibody
Full Product Name	Purified Anti-Mouse F4/80 Monoclonal Antibody
Product Gene Name	anti-F4/80 antibody
Product Synonym Names	Mouse F4/80; Adhesion G protein-coupled receptor E1; Adgre1; Cell surface glycoprotein F4/80; EGF-like module receptor 1; Adgre1; Emr1; Gpf480
Isotype	Rat IgG2b, kappa
Clone Number	CI:A3-1
Host	Rat
Species Reactivity	Mouse
Form/Format	Liquid; PBS with 0.05% Proclin 300
Concentration	0.5 mg/mL (lot specific)
Preparation and Storage	Ships on blue ice. Keep as concentrated solution. Store at 2~8°C. Do not freeze
Matching Pairs	Antibody: F4/80 (MBS2553715) Isotype Control: IgG2b Clone #LTF-2 (MBS2557879)
3D Structure	ModBase 3D Structure for Q61549
Note	Centrifuge before opening to ensure complete recovery of vial contents.
Isotype Control	Purified Rat IgG2b, kappa Isotype Control[LTF-2] [Product MBS2557879]
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 =< 1 µg per 10^6 cells in 100 ul volume or 100 ul of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-F4/80 antibody	Flow Cytometry (FC), Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-F4/80 antibody	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 References and Citations for anti-F4/80 antibody	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.
Other Notes	Small volumes of anti-F4/80 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for F4/80 purchase	MBS2553715 is an antibody targeting F4/80. Also known as Purified Anti-Mouse F4/80 Monoclonal Antibody. Reactive in Mouse. Host: Rat.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for F4/80. It may not necessarily be applicable to this product.

NCBI GI #	33859546
NCBI GeneID	13733
NCBI Accession #	NP_034260.1
UniProt Primary Accession #	Q61549
UniProt Related Accession #	Q61549
GenBank Nucleotide #	NM_010130.4
NCBI Official Full Name	adhesion G protein-coupled receptor E1 isoform 1
NCBI Official Synonym Full Names	adhesion G protein-coupled receptor E1
NCBI Official Symbol	Adgre1
NCBI Official Synonym Symbols	Emr1; Ly71; F4/80; Gpf480; TM7LN3; DD7A5-7; EGF-TM7
UniProt Protein Name	Adhesion G protein-coupled receptor E1
UniProt Synonym Protein Names	Cell surface glycoprotein F4/80; EGF-like module receptor 1; EGF-like module-containing mucin-like hormone receptor-like 1; EMR1 hormone receptor
UniProt Gene Name	Adgre1
UniProt Synonym Gene Names	Emr1; Gpf480
NCBI Protein Information	adhesion G protein-coupled receptor E1
UniProt Comments for F4/80	Orphan receptor involved in cell adhesion and probably in cell-cell interactions specifically involving cells of the immune system. May play a role in regulatory T-cells (Treg) development.
Research Articles on F4/80	**1.** EMR1 expression is restricted to mature blood and tissue eosinophils. Targeting of eosinophils with afucosylated anti-EMR1 antibody shows promise as a treatment for eosinophilic disorders.
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