

Rat anti-Mouse F4/80 Monoclonal Antibody | anti-F4/80 antibody

RAT ANTI MOUSE F4/80:FITC

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA49693	Rat	Mouse	Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

F4/80; Monoclonal Antibody; RAT ANTI MOUSE F4/80:FITC; Gpf480; anti-F4/80 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	A3-1
Specificity	Rat anti mouse F4/80 antibody, clone Cl:A3-1 recognises the murine F4/80 antigen, a ~160 kDa cell surface glycoprotein member of the EGF-TM7 family of proteins which shares 68% overall amino acid identity with human EGF module-containing mucin-like hormone receptor 1 (EMR1). Expression of F4/80 is heterogeneous and is modulated during macrophage maturation and activation. The F4/80 antigen is expressed on a wide range of mature tissue macrophages including Kupffer cells, Langerhans cells, microglia, macrophages located in the gut lamina propria, peritoneal cavity, lung, thymus, bone marrow stroma and macrophages in the red pulp of the spleen (Hume, et al. 1984). F4/80 antigen is also expressed on a subpopulation of dendritic cells but is absent from macrophages located in T cell areas of the spleen and lymph node (Gordon, et al. 1994). The ligands and biological functions of the F4/80 antigen have not been fully determined but a role for F4/80 in the generation of efferent CD8+ve regulatory T cells is proposed (Lin, et al. 2005) Rat anti mouse F4/80 antibody, clone Cl:A3-1 modulates cytokine levels released in response to Listeria monocytogenes (Warschkau & Kiderlen, 1999). A Human anti-idiotypic Cl:A31 antibody, clone 17867 (HCA154) which binds to and blocks activity of Rat anti mouse F4/80 antibody, clone Cl:A3-1 is also available for use as a control in experiments utilizing clone A3-1.
Form/Format	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Concentration	IgG concentration 0.1 mg/ml (varies by lot)
Applicable Applications for anti-F4/80 antibody	IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Target Species	Mouse
Max Ex/Em	Fluorophore: FITC Excitation Max (nm): 490 Emission Max (nm): 525
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline
Preservative Stabilizers	0.09% Sodium Azide 1% Bovine Serum Albumin
Immunogen	Thioglycollate stimulated peritoneal macrophages from C57BL/6 mice.
Fusion Partners	Spleen cells from immunised HOB2 rats were fused with cells of the mouse NS1 myeloma cell line.

Preparation and Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	33859546
NCBI GeneID	13733
NCBI Accession #	NP_034260.1
NCBI GenBank Nucleotide #	NM_010130.4
UniProt Accession #	Q61549
NCBI Official Full Name	EGF-like module-containing mucin-like hormone receptor-like 1
NCBI Official Synonym Full Names	EGF-like module containing, mucin-like, hormone receptor-like sequence 1
NCBI Official Symbol	Emr1
NCBI Official Synonym Symbols	Ly71; F4/80; Gpf480; TM7LN3; DD7A5-7; EGF-TM7
NCBI Protein Information	EGF-like module-containing mucin-like hormone receptor-like 1; EGF-like module receptor 1; EMR1 hormone receptor; cell surface glycoprotein F4/80; lymphocyte antigen 71
UniProt Protein Name	EGF-like module-containing mucin-like hormone receptor-like 1
UniProt Gene Name	Emr1
UniProt Synonym Gene Names	Gpf480
UniProt Entry Name	EMR1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/f4-80-antibody-clone-a3-1-immunofluorescence-flow-cytometry-elisa/49693>