



Rabbit Anti-EMR1/ F4/80 antibody

SL11182R

Product Name:	EMR1/ F4/80
Chinese Name:	表皮生长因子样激素受体1
Alias:	F4/80; Cell surface glycoprotein EMR1; Cell surface glycoprotein F4/80; DD7A5 7; Egf like module containing mucin like hormone receptor like 1; Egf like module containing mucin like hormone receptor like sequence 1; EGF like module receptor 1; EGF TM7; EGF-like module receptor 1; EGF-like module-containing mucin-like hormone receptor-like 1; EGFTM7; EMR 1; EMR1; EMR-1; EMR1 hormone receptor; EMR1_HUMAN; Gpf480; Ly71; Lymphocyte antigen 71; TM7LN3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	95kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human EMR1:401-500/886<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The epidermal growth factor (EGF)-TM7 family constitutes a group of class B G-

protein coupled receptors, which includes CD97, EMR1 (EGF-like molecule containing mucin-like hormone receptor 1, designated F4/80 in mouse), EMR2, EMR3, FIRE, and ETL (1–3). These family members are characterized by an extended extracellular region with several N-terminal EGF domains, and are predominantly expressed on cells of the immune system (1–3). The EGF-TM7 protein family are encoded by a gene cluster on human chromosome 19p13 (1,3,4). The F4/80 molecule is solely expressed on the surface of macrophages and serves as a marker for mature macrophage tissues, including Kupffer cells in liver, splenic red pulp macrophages, brain microglia, gut lamina propria, and Langerhans cells in the skin (1). F4/80/EMR1 undergoes extensive N-linked glycosylation as well as some O-linked glycosylation (5,6). The function of F4/80/EMR1 is unclear, but it is speculated to be involved in macrophage adhesion events, cell migration, or as a G-protein coupled signaling component of macrophages.

Function:

Could be involved in cell-cell interactions.

Subunit:

Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily. Contains 6 EGF-like domains. Contains 1 GPS domain.

Subcellular Location:

Cell membrane.

Tissue Specificity:

Wide expression; increased levels in peripheral blood mononuclear cells.

Similarity:

Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily. Contains 6 EGF-like domains. Contains 1 GPS domain.

SWISS:

Q14246

Gene ID:

2015

Database links:

[Entrez Gene: 2015](#)Human

[Entrez Gene: 13733](#)Mouse

[Omin: 600493](#)Human

[SwissProt: Q14246](#)Human

[SwissProt: Q61549](#)Mouse

[Unigene: 2375](#)Human

[Unigene: 2254](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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