

ADGRE1 Rabbit pAb

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Catalog # AP52265

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q61549
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	102130
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse ADGRE1
Epitope Specificity	701-800/886
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	13733
Other Names	Adhesion G protein-coupled receptor E1, Cell surface glycoprotein F4/80, EGF-like module receptor 1, EGF-like module-containing mucin-like hormone receptor-like 1, EMR1 hormone receptor, Adgre1, Emr1, Gpf480
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.
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Protein Information

Name	Adgre1
Synonyms	Emr1, Gpf480
Function	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.
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:Q14246}; Multi-pass membrane protein
Tissue Location	In macrophages; but absent from those which are localized within T-cell areas of lymph nodes and spleen. Low level of expression on blood monocytes

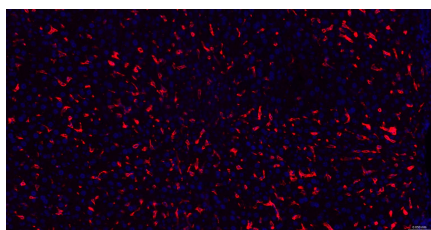
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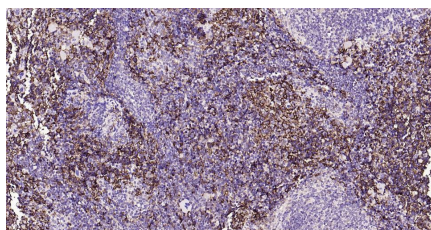
References

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 Suwa M.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
 Tan J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
 Ota T.,et al.Nat. Genet. 36:40-45(2004).
 Grimwood J.,et al.Nature 428:529-535(2004).

Images



Paraformaldehyde-fixed, paraffin embedded Mouse Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with ADGRE1 Polyclonal Antibody, Unconjugated (AP52265) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Rde, AP52265-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei.



Paraformaldehyde-fixed, paraffin embedded Mouse Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ADGRE1 Polyclonal Antibody, Unconjugated (AP52265) at 1:400 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.