

For Research Use Only

EMR1 Polyclonal antibody

Catalog Number: 27044-1-AP

35 Publications



Basic Information

Catalog Number:

27044-1-AP

Concentration:

700 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25883

GenBank Accession Number:

BC059395

GeneID (NCBI):

2015

UNIPROT ID:

Q14246

Full Name:

egf-like module containing, mucin-like, hormone receptor-like 1

Calculated MW:

886 aa, 97 kDa

Observed MW:

160 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:400-1:1600

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: unboiled RAW 264.7 cells, HL-60 cells

IHC: mouse spleen tissue, mouse liver tissue

IF/ICC: mouse peritoneal macrophages,

Background Information

EMR1 (EGF-like module containing mucin-like hormone receptor 1), also known as Adhesion G protein-coupled receptor E1 (ADGRE1), is a surface receptor with seven transmembrane segments that belong to the EGF-7-transmembrane family of G protein-coupled receptors (PMID: 14647991, 7601460). EMR1 expression is restricted to eosinophilic granulocytes, where expression is overlapping with the eotaxin receptor CCR3 and the immunoglobulin-like lectin Siglec-8. Absence on other leukocytes, including basophils, implies that EMR1 is a highly specific marker for eosinophils in humans and may be used as a novel therapeutic target for eosinophilic disorders (PMID: 17823986, 24530099). F4/80, the murine homolog of EMR1, is a marker of murine macrophage. The apparent molecular weight of F4/80 is 160 kDa, which is larger than the calculated molecular weight due to post-translational modifications (PMID: 7308288; 8647179).

Notable Publications

Author	Pubmed ID	Journal	Application
Yu-Hui Gu	36386139	Front Pharmacol	IF
Junjie Li	33080309	Cancer Lett	IF
Huihui Tao	34843873	Toxicol Lett	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

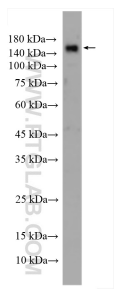
T: 4006900926

E: Proteintech-CN@ptglab.com

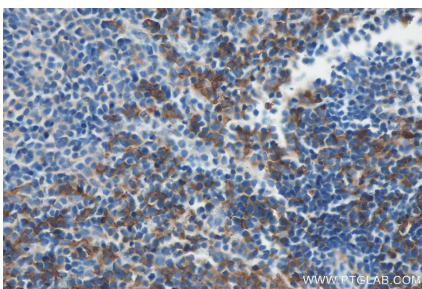
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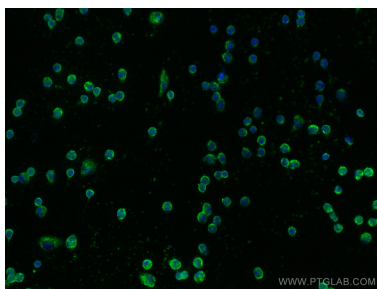
Selected Validation Data



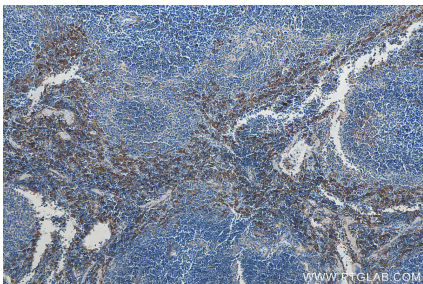
unboiled RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 27044-1-AP (EMR1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 27044-1-AP (EMR1 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed mouse peritoneal macrophages using EMR1 antibody (27044-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 27044-1-AP (EMR1 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



HL-60 cells were subjected to SDS PAGE followed by western blot with 27044-1-AP (EMR1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.