



Rabbit Anti-EMR2 antibody

SL13634R

Product Name:	EMR2
Chinese Name:	CD312抗体
Alias:	CD 312; CD 312 antigen; CD312; CD312 antigen; Egf like module containing mucin like hormone receptor like 2; Egf like module containing mucin like hormone receptor like sequence 2; EGF like module EMR2; EGF-like module receptor 2; EGF-like module-containing mucin-like hormone receptor-like 2; EMR2; EMR2 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-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:	88kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human EMR2:451-550/823<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) family constitutes a group of class B, G protein-coupled receptors, which includes CD97 and EMR2. EMR2 is a member of the EGF-TM7 receptor subfamily. EGF-TM7 receptors are a family of class B, seven-span

transmembrane (TM7) receptors predominantly expressed by cells of the immune system. Within the TM7 superfamily, the molecular structure and ligand-binding properties of EGF-TM7 receptors are unique. Derived from the processing of a single polypeptide, they are expressed at the cell surface as heterodimers consisting of a large extracellular region associated with a TM7 moiety. Through a variable number of N-terminal EGF-like domains, EGF-TM7 receptors interact with cellular ligands such as CD55 and chondroitin sulfate. EMR2 is a heptahelical molecule predominantly expressed on cells of the immune system such as leukocytes. EMR2 is proteolytically cleaved into two separate subunits: a seven-transmembrane subunit, and an extracellular Alpha subunit.

Function:

Receptor probably involved in cell attachment.

Subcellular Location:

Cell membrane.

Tissue Specificity:

Expression is restricted to myeloid cells. Highest expression was found in peripheral blood leukocytes, followed by spleen and lymph nodes, with intermediate to low levels in thymus, bone marrow, fetal liver, placenta, and lung, and no expression in heart, brain, skeletal muscle, kidney, or pancreas. Expression is also detected in monocyte/macrophage and Jurkat cell lines but not in other cell lines tested.

Post-translational modifications:

Autoproteolytically cleaved into 2 subunits, an extracellular alpha subunit and a seven-transmembrane beta subunit.

Similarity:

Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily.
Contains 5 EGF-like domains.
Contains 1 GPS domain.

SWISS:

Q9UHX3

Gene ID:

30817

Database links:

[Entrez Gene: 30817](#) Human

[Omim: 606100](#) Human

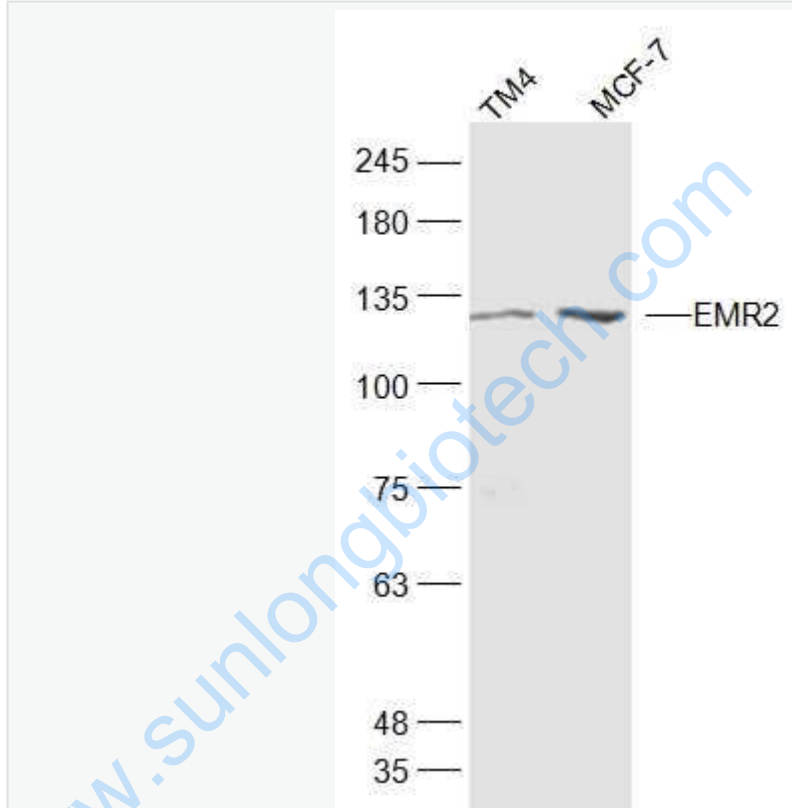
[SwissProt: Q9UHX3](#) Human

[Unigene: 531619](#) Human

Important Note:

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

Picture:



Sample:

TM4(Mouse) Cell Lysate at 30 ug

MCF-7(Human) Cell Lysate at 30 ug

Primary: Anti-EMR2 (SL13634R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 88 kD

Observed band size: 128 kD

