

Product Name: EMR2 Rabbit Polyclonal Antibody
Catalog #: APRab10447



Summary

Production Name	EMR2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF, WB,
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	EMR2
Alternative Names	EMR2; EGF-like module-containing mucin-like hormone receptor-like 2; EGF-like module receptor 2; CD antigen CD312
Gene ID	30817.0
SwissProt ID	Q9UHX3. The antiserum was produced against synthesized peptide derived from human EMR2. AA range:765-814

Application

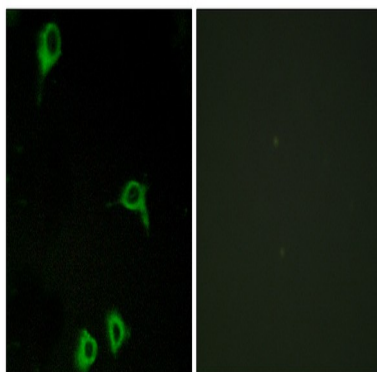
Dilution Ratio	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Molecular Weight	85kD

Background

This gene encodes a member of the class B seven-span transmembrane (TM7) subfamily of G-protein coupled receptors. These proteins are characterized by an extended extracellular region with a variable number of N-terminal epidermal growth factor-like domains coupled to a TM7 domain via a mucin-like spacer domain. The encoded protein is expressed mainly in myeloid cells where it promotes cell-cell adhesion through interaction with chondroitin sulfate chains. This gene is situated in a cluster of related genes on chromosome 19. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2012],alternative products:A number of isoforms are produced. A number of isoforms consisting of various number of EGF-like domains seems to exist. A soluble form due to a frameshift which introduced a stop codon immediately before the first TM domain is also detected,domain:Binding to chondroitin sulfate is mediated by the fourth EGF domain.,domain:The GPS domain is necessary, but not sufficient for receptor cleavage, which require the entire extracellular stalk.,function:Receptor probably involved in cell attachment.,PTM:Proteolytically cleaved into 2 subunits, an extracellular alpha subunit and a seven-transmembrane subunit.,similarity:Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily.,similarity:Contains 1 GPS domain.,similarity:Contains 5 EGF-like domains.,subunit:Forms a heterodimer, consisting of a large extracellular region non-covalently linked to a seven-transmembrane moiety. Interacts with chondroitin sulfate.,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.,

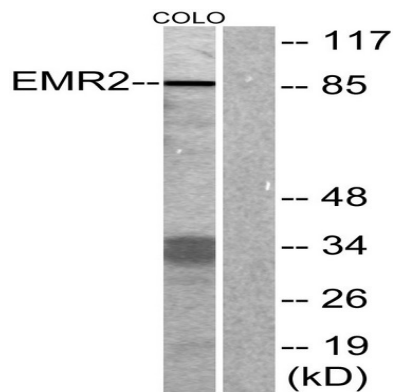
Research Area

Image Data

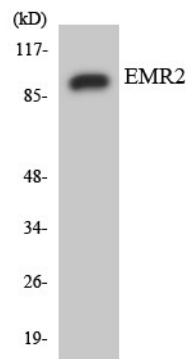


Immunofluorescence analysis of COS7 cells, using EMR2 Antibody. The picture on the right is blocked with the synthesized peptide.

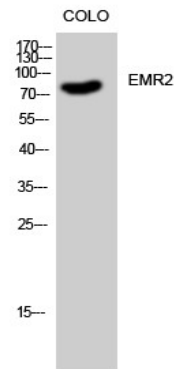
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Western blot analysis of lysates from COLO cells, using EMR2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HUVEC cells using EMR2 antibody.



Western Blot analysis of COLO cells using EMR2 Polyclonal Antibody

Note

For research use only.