Rabbit anti-Human EMR2 Polyclonal Antibody | anti-EMR2 antibody

EMR2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325540	**Rabbit**	**Human**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

PRODUCT SYNONYMS

EMR2; Polyclonal Antibody; EMR2 Antibody; 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_HUMAN; anti-EMR2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	EMR2 antibody detects endogenous levels of total EMR2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	765
Applicable Applications for anti-EMR2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
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. High expression in mast cells (PubMed:26841242).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

IF (Immunofluorescence)
AAA325540 staining COLO205 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

WB (Western Blot)
Western blot analysis of extracts from HeLa cells, using EMR2 antibody.The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-EMR2 antibody	Function: Cell surface receptor that binds to the chondroitin sulfate moiety of glycosaminoglycan chains and promotes cell attachment. Promotes granulocyte chemotaxis, degranulation and adhesion. In macrophages, promotes the release of inflammatory cytokines, including IL8 and TNF. Signals probably through G-proteins. Is a regulator of mast cell degranulation (PubMed:26841242). Subunit Structure: Forms a heterodimer, consisting of a large extracellular region non-covalently linked to a seven-transmembrane moiety. Interacts with chondroitin sulfate; the interaction with chondroitin sulfate is calcium-dependent. Interacts with CD55. Post-translational Modifications: Autoproteolytically cleaved into 2 subunits, an extracellular alpha subunit and a seven-transmembrane beta subunit. Similarity: The GPS domain is necessary, but not sufficient for receptor cleavage, which require the entire extracellular stalk.Binding to chondroitin sulfate is mediated by the fourth EGF domain. Belongs to the G-protein coupled receptor 2 family. Adhesion G-protein coupled receptor (ADGR) subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	402743849
NCBI GeneID	30817
NCBI Accession #	NP_001257981.1
NCBI GenBank Nucleotide #	NM_001271052.1
UniProt Accession #	Q9UHX3; Q8NG96; Q9Y4B1; B4DQ96; E7ESD7; E9PBR1; E9PEL6; E9PFQ5; E9PG91
Molecular Weight	Observed: 90 kD Predicted: 91 kDa
NCBI Official Full Name	adhesion G protein-coupled receptor E2 isoform h
NCBI Official Synonym Full Names	adhesion G protein-coupled receptor E2
NCBI Official Symbol	ADGRE2
NCBI Official Synonym Symbols	VBU; CD97; EMR2; CD312
NCBI Protein Information	adhesion G protein-coupled receptor E2
UniProt Protein Name	Adhesion G protein-coupled receptor E2
UniProt Gene Name	**ADGRE2**

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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