10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD93 Rabbit pAb

Catalog # AP98576

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9NPY3
Other Accession	Q9NPY3
Reactivity	Human
Predicted	Rat, Mouse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	68560
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CD93
Epitope Specificity	56-160/652
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 C-type lectin domain.Contains 5 EGF-like domains.
SUBUNIT	Interacts with HCV core protein. Interacts with C1QBP; the association may represent a cell surface C1q receptor.
Post-translational modifications	N- and O-glycosylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a cell-surface glycoprotein and type I membrane protein that was originally identified as a myeloid cell-specific marker. The encoded protein was once thought to be a receptor for C1q, but now is thought to instead be involved in intercellular adhesion and in the clearance of apoptotic cells. The intracellular cytoplasmic tail of this protein has been found to interact with moesin, a protein known to play a role in linking transmembrane proteins to the cytoskeleton and in the remodelling of the cytoskeleton. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	22918
Other Names	C1QR1; C1qR(P); C1qRP; CDw93; ECSM3; MXRA4; dJ737E23.1; 6030404G09Rik; AA4.1; Ly68; C1QR1_HUMAN; CD93; C1q/MBL/SPA receptor (C1qR | C1qR(p) | C1qRp); Complement component 1 q subcomponent receptor 1; Matrix-remodeling-associated protein 4; C1QR1_MOUSE; C1q/MBL/SPA receptor (C1qR(p) | C1qRp); Cell surface antigen AA4; Lymphocyte antigen 68 (Ly-68); Aa4; C1QR1_RAT; CD93 molecule; matrix-remodelling associated 4; complement component 1, q subcomponent, receptor 1; CD93 antigen

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.

Protein Information

Name	CD93
Synonyms	C1QR1, MXRA4
Function	Cell surface receptor that plays a role in various physiological processes including inflammation, phagocytosis, and cell adhesion. Plays a role in phagocytosis and enhances the uptake of apoptotic cells and immune complexes by acting as a receptor for defense collagens including surfactant protein A/SFTPA1, C1q, and mannose-binding lectin (MBL2) (PubMed:7977768). Plays a role in the regulation of endothelial cell function and adhesion by activating angiogenesis (PubMed:24809468). Mechanistically, exerts its angiogenic function by associating with beta-dystroglycan, leading to SRC- dependent phosphorylation and subsequent recruitment of CBL. In turn, CBL provides a docking site for downstream signaling components, such as CRKL to enhance cell migration (PubMed:26848865). Participates in angiogenesis also by acting as a receptor for the ECM pan-endothelial glycoprotein multimerin-2/MMRN2 and IGFBP7 ligands (PubMed:28671670, PubMed:36265539, PubMed:38218180). Both ligands play a non-redundant role in CD93-mediated endothelial cell function (PubMed:38218180). Acts as a key regulator of endothelial barrier function through modulating VEGFR2 function (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Highly expressed in endothelial cells, platelets, cells of myeloid origin, such as monocytes and neutrophils. Not expressed in cells of lymphoid origin

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