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PCDH12 Rabbit pAb

Catalog # AP96247

Product Information

Application	WB
Primary Accession	Q9NPG4
Other Accession	Q9NPG4
Reactivity	Mouse
Predicted	Rat, Human, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	128995
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PCDH12
Epitope Specificity	401-500/1184
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane. Cell junction.
SIMILARITY	Contains 6 cadherin domains.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene belongs to the protocadherin gene family, a subfamily of the cadherin superfamily. The encoded protein consists of an extracellular domain containing 6 cadherin repeats, a transmembrane domain and a cytoplasmic tail that differs from those of the classical cadherins. The gene localizes to the region on chromosome 5 where the protocadherin gene clusters reside. The exon organization of this transcript is similar to that of the gene cluster transcripts, notably the first large exon, but no significant sequence homology exists. The function of this cellular adhesion protein is undetermined but mouse protocadherin 12 does not bind catenins and appears to have no affect on cell migration or growth.

Additional Information

Gene ID	51294
Other Names	DMJDS1; VE-cadherin-2; VECAD2; PCD12_HUMAN; PCDH12; Vascular cadherin-2; Vascular endothelial cadherin-2 (VE-cad-2 | VE-cadherin-2); protocadherin 12
Target/Specificity	Expressed in highly vascularized tissues including the heart and placenta, but most tissues contain a low level of expression. Prominent expression in the spleen.
Dilution	WB=1:500-2000,Flow-Cyt=1 □g/Test

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	PCDH12 (HGNC:8657)
Function	Cellular adhesion molecule that may play an important role in cell-cell interactions at interendothelial junctions (By similarity). Acts as a regulator of cell migration, probably via increasing cell- cell adhesion (PubMed:21402705). Promotes homotypic calcium-dependent aggregation and adhesion and clusters at intercellular junctions (By similarity). Unable to bind to catenins, weakly associates with the cytoskeleton (By similarity).
Cellular Location	[Protocadherin-12]: Cell membrane; Single-pass type I membrane protein. Cell junction {ECO:0000250|UniProtKB:O55134}
Tissue Location	Expressed in highly vascularized tissues including the heart and placenta, but most tissues contain a low level of expression (PubMed:11063261). Prominent expression in the spleen (PubMed:11063261). Present in villous and extravillous trophoblast (at protein level) (PubMed:21402705).

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