



Rabbit Anti-PCDH1 antibody

SL11111R

Product Name:	PCDH1
Chinese Name:	原钙粘附蛋白1抗体
Alias:	Cadherin like 1; Cadherin like protein 1; PC 42; PC42; PCDH 1; PCDH-1; PCDH 42; PCDH42; Protocadherin 1; Protocadherin 42; Protocadherin1; Protocadherin42.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	ELISA=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:	110kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PCDH1:51-150/1060<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:	Protocadherins are a subfamily of cadherins, a large group of related glycoproteins that mediate calcium-dependent cell-to-cell adhesion via a homophilic mechanism. Involved in a variety of functions, protocadherins help to regulate neural development and synapse formation. PCDH1 is a 1,026 amino acid single-pass type I membrane protein that contains seven cadherin domains and is a member of the protocadherin family.

Localized to cell-cell and cell-matrix boundaries and expressed at high levels in brain and neuro-glial cells, PCDH1 is thought to be involved in cell adhesion and cell-cell interactions and may play a role in neuronal development. PCDH1 contains a C-terminal cytoplasmic region, an extracellular region and a transmembrane region, and is expressed as two isoforms due to alternative splicing events.

Function:

PCDH1 (Protocadherin 1) belongs to the protocadherin family, a subfamily of the cadherin superfamily. It is a membrane protein found at cell-cell boundaries suggesting a role in cell-cell interaction processes. It is involved in neural cell adhesion, suggesting a possible role in neuronal development.

Subcellular Location:

Cell junction. Cell membrane. Single-pass type I membrane protein. Note=Found at cell-cell boundaries and probably at cell-matrix boundaries.

Tissue Specificity:

Highly expressed in the brain and neuro-glial cells.

Similarity:

Contains 7 cadherin domains.

SWISS:

Q08174

Gene ID:

5097

Database links:

[Entrez Gene: 5097](#)Human

[Oimim: 603626](#)Human

[SwissProt: Q08174](#)Human

[Unigene: 79769](#)Human

Important Note:

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