



Rabbit Anti-PCDHB6 antibody

SL13726R

Product Name:	PCDHB6
Chinese Name:	原钙粘附蛋白β6抗体
Alias:	PCDH beta6; PCDH beta 6; PCDHB 6; Protocadherin beta 6; PCDB6_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Sheep,
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:	84kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PCDHB6:21-120/794<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 large family of cadherin-like cell adhesion proteins that are involved in the establishment and maintenance of neuronal connections in the brain. There are three protocadherin gene clusters, designated alpha, beta and gamma, all of which contain multiple tandemly arranged genes. PCDHB6 (Protocadherin beta-6) is a 794 amino acid single pass transmembrane protein that is one of 16 proteins in the protocadherin beta cluster. Unlike the alpha and gamma gene clusters whose genes are

spliced to downstream constant region exons during transcription, members of the beta cluster (such as PCDHB6) do not use constant-region exons to produce mRNAs. As a result, each protocadherin beta gene encodes the transmembrane, extracellular and short cytoplasmic domains of the protein. PCDHB6 is likely a calcium-dependent cell adhesion protein that is involved in the maintenance of neural connections in the brain. Unlike most protocadherin-beta proteins, PCDHB6 has not one but two PXXP motifs within its cytoplasmic domain, suggesting a role in signal transduction cascade events.

Function:

PCDHB6 (Protocadherin beta 6) is a member of the protocadherin family, a subgroup of the cadherin superfamily. Protocadherins are neural cadherin-like cell adhesion proteins that are integral membrane proteins. The specific function of PCDHB6 is unknown but it is thought to be involved in the establishment and maintenance of specific neuronal connections in the brain. PCDHB6 is a member of the beta cluster of protocadherin genes on 5q31.

Subcellular Location:

Cell membrane. Single-pass type I membrane protein.

Similarity:

Contains 6 cadherin domains.

SWISS:

Q9Y5E3

Gene ID:

56130

Database links:

[Entrez Gene: 56130](#) Human

[Omim: 606332](#) Human

[SwissProt: Q9Y5E3](#) Human

[Unigene: 283085](#) Human

Important Note:

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