



Rabbit Anti-PCDHGA4 antibody

SL11144R

Product Name:	PCDHGA4
Chinese Name:	原钙粘蛋白 γ A4抗体
Alias:	PCDHGA4; PCDHGA 4; PCDHGA-4; PCDH gamma A4; Protocadherin gamma A4; PCDG4_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
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:	98kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PCDHGA4:231-330/931<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 (PCDH) gene clusters, designated alpha, beta and gamma, all of which contain multiple tandemly arranged genes. PCDHGA4 (Protocadherin gamma-A4) is a 931 amino acid that is one of 22 proteins encoded by

the protocadherin gamma cluster. The protocadherin gamma cluster consists of three subfamilies (A, B and C) and PCDHGA4 is a member of the gamma subfamily A. PCDHGA4 is a type I transmembrane receptor containing six cadherin motifs and is expressed in the central nervous system where it localizes to synapses. Members of the gamma cluster of protocadherins are essential for neuronal survival. There are two isoforms of PCDHGA4 that are produced as a result of alternative splicing events.

Function:

Potential calcium-dependent cell-adhesion protein. May be involved in the establishment and maintenance of specific neuronal connections in the brain.

Subcellular Location:

Cell membrane; Single pass type I membrane protein

Similarity:

Contains 6 cadherin domains.

SWISS:

Q9Y5G9

Gene ID:

56111

Database links:

[Entrez Gene: 56111](#)Human

[Entrez Gene: 93712](#)Mouse

[Entrez Gene: 252894](#)Rat

UniProtKB/Swiss-Prot: Q9Y5G9.1

Important Note:

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