

PCDHA4 Rabbit pAb

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Catalog # AP54385

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9UN74
Predicted	Rat, Dog, Human, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	102293
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PCDHA4
Epitope Specificity	301-400/947
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Members of the cadherin-related neuronal receptor (CNR) family, including PCDHA4 (also known as CNR1) and PCDHA6 (also known as CNR2), comprise a novel subfamily within the cadherin superfamily of adhesion molecules. The cadherin-related neuronal receptor proteins form a complex with Fyn, a protein tyrosine kinase that is involved in building brain networks and determining patterns of behavior. Cadherin-related neuronal receptor 1 and 2 were discovered during a search for receptor molecules to the Fyn signaling pathway in the mammalian brain. Members of the cadherin superfamily are Ca ²⁺ -dependent adhesion molecules that function to mediate cell-cell binding critical to the maintenance of tissue structure and morphogenesis. The PCDHA4 and PCDHA6 extracellular domains contain six cadherin repeats that mediate Ca ⁺⁺ -dependent cell adhesion, while the cytoplasmic domains are not homologous with other cadherins.

Additional Information

Gene ID	56144
Other Names	Protocadherin alpha-4, PCDH-alpha-4, PCDHA4 (HGNC:8670)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	PCDHA4 (HGNC:8670)
Function	Calcium-dependent cell-adhesion protein involved in cells self-recognition and non-self discrimination. Thereby, it is involved in the establishment and maintenance of specific neuronal connections in the brain.
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:O88689}; Single-pass type I membrane protein {ECO:0000250 UniProtKB:O88689} Note=Detected in dendrites and synapses {ECO:0000250 UniProtKB:O88689}

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