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[Marker Primary Antibody]

Rabbit Anti-PCDHA1/HRP Conjugated antibody

Catalog Number: SL11115R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-PCDHA1/HRP
Immunogen:	KLH conjugated synthetic peptide derived from human PCDHA1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog)
Background:	background: 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. PCDHA1 (protocadherin alpha 1), also known as PCDH-ALPHA1, is a 950 amino acid, single-pass type I membrane protein that contains six cadherin domains. Functioning as a potential calcium-dependent cell-adhesion protein, PCDHA1 has been suspected to play a role in the creation and maintenance of neuronal connections. Three isoforms of PCDHA1 exists due to alternative splicing events. **Function:** PCDHA1 (Protocadherin alpha 1) 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. Their specific functions are unknown but they most likely play a critical role in the

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	establishment and function of specific neuronal connections in the brain. PCDHA1 is one of fifteen tandemly arranged genes within the alpha cluster of protocadherin genes on 5q31. **Subcellular Location:** Isoform 1: Cell membrane; Single-pass type I membrane protein. Isoform 2: Secreted. **Similarity:** Contains 6 cadherin domains. **Database links:** **Entrez Gene:** 56147 Human Omim: 606307 Human **SwissProt:** Q9Y5I3 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.