

**PCDHA4 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP54385****Specification**

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**PCDHA4 Polyclonal Antibody - Product Information**

|                                |   |
|--------------------------------|---|
| Application                    | WB, IHC-P, IHC-F, IF, ICC, E  |
| Primary Accession              | <a href="#">O9UN74</a>  |
| Reactivity                     | Rat, Dog, Bovine  |
| Host                           | Rabbit  |
| Clonality                      | Polyclonal  |
| Calculated MW                  | 99 KDa  |
| Physical State                 | Liquid  |
| Immunogen                      | KLH conjugated synthetic peptide derived from human PCDHA4  |
| Epitope Specificity            | 301-400/947   |
| Isotype                        | IgG   |
| <b>Purity</b>                  |   |
| affinity purified by Protein A |   |
| Buffer                         | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.   |
| SUBCELLULAR LOCATION           | Cell membrane.  |
| SIMILARITY                     | Contains 6 cadherin domains.  |
| 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<sup>2+</sup>-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<sup>2+</sup>-dependent cell adhesion, while the cytoplasmic domains are not homologous with other cadherins.

**PCDHA4 Polyclonal Antibody - Additional Information****Gene ID** 56144**Other Names**

Protocadherin alpha-4, PCDH-alpha-4, PCDHA4 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=8670" target="\_blank">HGNC:8670</a>)

**Dilution**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_ICC">ICC~~N/A</span><br \><span class = "dilution\_E">E~~N/A</span>

**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.

**PCDHA4 Polyclonal Antibody - 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}

**PCDHA4 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PCDHA4 Polyclonal Antibody - Images**