

## **PCDHA4 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54385

# **Specification**

# **PCDHA4 Polyclonal Antibody - Product Information**

Application

Primary Accession

Reactivity

Q9UN74

Rat, Dog, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 99 KDa
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

WB, IHC-P, IHC-F, IF, ICC, E

from human PCDHA4

Epitope Specificity 301-400/947

Isotype Purity

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**

affinity purified by Protein A

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 Ca2+-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.

### **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**

 $< span \ class = "dilution_WB">WB~\sim 1:1000 < /span> < br \> < span \ class = "dilution_IHC-P">IHC-P~\sim N/A < /span> < br \> < span \ class = "dilution_IHC-F">IHC-F~\sim N/A < /span> < br \> < span \ class = "dilution_IF">IF~\sim 1:50 \sim 200 < /span> < br \> < span \ class = "dilution_ICC">ICC~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~< \ D/A < /span < down = 10000 < down = 100000 < down = 10000 < down = 100000 < down = 10000 < down = 100000 < down =$ 

#### **Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

## **Storage**

Store at -20  $^{\circ}$ 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  $^{\circ}$ 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 Cytomety
- Cell Culture

## **PCDHA4 Polyclonal Antibody - Images**