

## **PCDH18 Antibody**

Catalog # ASC10870

## **Specification**

# **PCDH18 Antibody - Product Information**

Application
Primary Accession
Other Accession
Reactivity
Host
Clonality
Isotype

**Application Notes** 

WB, IHC-P, IF, E

**O9HCLO** 

NP\_061908, 14589929 Human, Mouse, Rat

Rabbit Polyclonal

IqG

PCDH18 antibody can be used for detection

of PCDH18 by Western blot at 2  $\mu$ g/mL.

Antibody can also be used for

immunohistochemistry starting at 2.5  $\mu g/mL$ . For immunofluorescence start at 20

μg/mL.

## **PCDH18 Antibody - Additional Information**

Gene ID **54510** 

# **Target/Specificity**

PCDH18; At least three isoforms of PCDH18 are known to exist. This antibody is predicted to not cross-react with PCDH12.

### **Reconstitution & Storage**

PCDH18 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

### **Precautions**

PCDH18 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

# **PCDH18 Antibody - Protein Information**

Name PCDH18

Synonyms KIAA1562

#### **Function**

Potential calcium-dependent cell-adhesion protein.

#### **Cellular Location**

Cell membrane; Single-pass type I membrane protein

#### **Tissue Location**

Expressed in all tissues, with highest expression in lung and ovary.

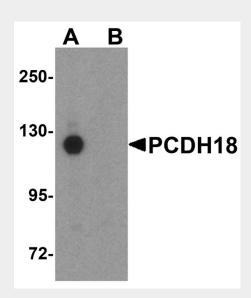


# **PCDH18 Antibody - Protocols**

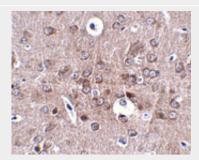
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

### **PCDH18 Antibody - Images**

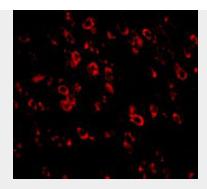


Western blot analysis of PCDH18 in HepG2 cell lysate with PCDH18 antibody at 1  $\mu$ g/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of PCDH18 in mouse brain tissue with PCDH18 antibody at 2.5 μg/mL.





Immunofluorescence of PCDH18 in Mouse Brain cells with PCDH18 antibody at 20 μg/mL.

## PCDH18 Antibody - Background

PCDH18 Antibody: Protocadherins comprise the largest group within the cadherin family of calcium-dependent cell-cell adhesion molecules. Protocadherin 18 (PCDH18) was initially identified through screening of human and mouse ESTs using conserved cytoplasmic domain motifs. Tissue screening revealed PCDH18 broad expression in tissues such as brain, liver, heart, kidney, lung, and trachea. PCDH18 expression is also temporally and spatially regulated in the mouse embryonic brain and interacts with Disabled-1, an intracellular adapter protein involved in neuronal migration and cell positioning during mammalian brain development. PCDH18 was also found to be expressed in the developing zebrafish neural tube and central nervous system, lending support to the hypothesis that PCDH18 may play a role during brain development.

# **PCDH18 Antibody - References**

Frank M and Kemler R. Protocadherins. Curr. Opin. Cell Biol. 2002; 14:557-62.

Wolverton T and Lalande M. Identification and characterization of three members of a novel subclass of protocadherins. Genomics2001; 76:66-72.

Homayouni R, Rice DS, and Curran T. Disabled-1 interacts with a novel developmentally regulated protocadherin. Biochem. Biophys. Res. Commun.2001; 289:539-47.

Kubota F, Murakami T, Tajika Y, et al. Expression of protocadherin 18 in the CNS and pharyngeal arches of zebrafish embryos. Int. J. Dev. Biol.2008; 52:397-405.