

For Research Use Only

# PCDH9 Polyclonal antibody

Catalog Number: 25090-1-AP

5 Publications



## Basic Information

### Catalog Number:

25090-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 287 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG18696

### GenBank Accession Number:

BC136626

### GeneID (NCBI):

5101

### UNIPROT ID:

Q9HC56

### Full Name:

protocadherin 9

### Calculated MW:

1237 aa, 136 kDa

### Observed MW:

150-180 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:250-1:1000

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : mouse brain tissue, rat brain tissue

IP : mouse brain tissue,

IHC : human gliomas tissue, mouse brain tissue

## Background Information

Protocadherin-9 (PCDH9) is a member of the protocadherin family that belongs to the cadherin superfamily. Protocadherins are calcium-dependent adhesion proteins and have been implicated in neural cell-cell interactions. They are abundantly expressed in the central nervous system during embryonic development and in adulthood (PMID: 24214103). PCDH9 is a single-pass type I membrane protein that contains seven cadherin motifs in its extracellular domain. It might be involved in the formation of specific neural circuits during neural development (PMID: 22982106).

## Notable Publications

Author	Pubmed ID	Journal	Application
Can Shi	31632082	Onco Targets Ther	WB
Federico Miozzo	39557582	J Neurosci	IF
Ruixi Li	39279908	Breast Cancer (Dove Med Press)	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

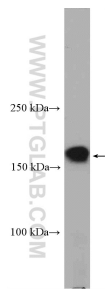
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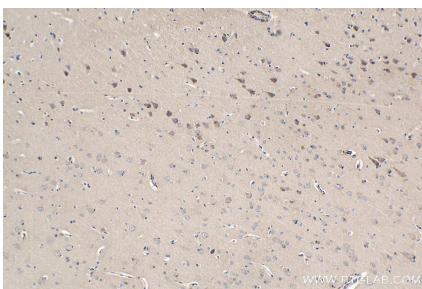
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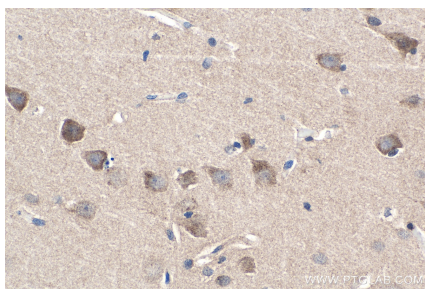
Selected Validation Data



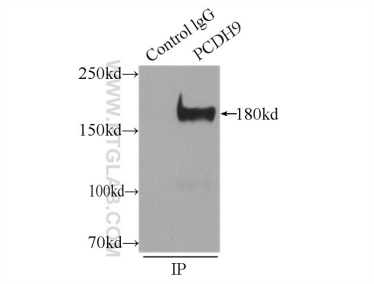
mouse brain tissue were subjected to SDS PAGE followed by western blot with 25090-1-AP (PCDH9 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 25090-1-AP (PCDH9 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 25090-1-AP (PCDH9 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PCDH9 (IP:25090-1-AP, 4ug; Detection:25090-1-AP 1:1000) with mouse brain tissue lysate 5000ug.