For Research Use Only

PCDHA9 Polyclonal antibody

Catalog Number:18075-1-AP Featured Product 2 Publications

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Basic Information

Catalog Number:
18075-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12767

GenBank Accession Number:
BC104802

GeneID (NCBI):
9752

UNIPROT ID:
Q9Y5H5

Full Name:
protocadherin alpha 9

Calculated MW:
950 aa, 102 kDa

Observed MW:
91 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF-P 1:50-1:500

Applications

Tested Applications:
IHC, IF-P, 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:

IP : mouse brain tissue,

IHC : mouse brain tissue, rat cerebellum tissue

IF-P : mouse brain tissue,

Background Information

Protocadherins, which constitute the largest subgroup within the cadherin superfamily, are predominantly expressed in the nervous system and are probably involved in the regulation of neuronal recognition and connectivity (PMID: 17936607; 12231349; 17133224). The protocadherin subfamily can be further subdivided into three groups: the clustered protocadherins, comprising α-, β- and γ -protocadherins; δ-protocadherins; and others, many of which are solitary (PMID: 17133224). PCDHA9 belongs to the α-protocadherin (PCDHA) cluster. A homozygous variant in PCDHA9 has been found in three unrelated Chinese ALS patients, suggesting PCDHA9 as a candidate gene for amyotrophic lateral sclerosis(PMID: 38467605).

Notable Publications

Author	Pubmed ID	Journal	Application
Qiyang Shen	29477871	Gene	WB
Jie Zhong	38467605	Nat Commun	WB,IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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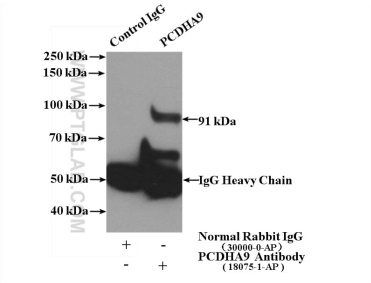
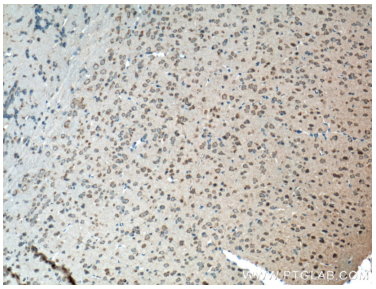
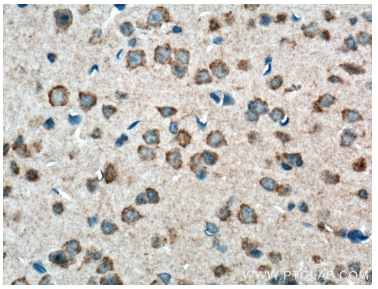
Selected Validation Data



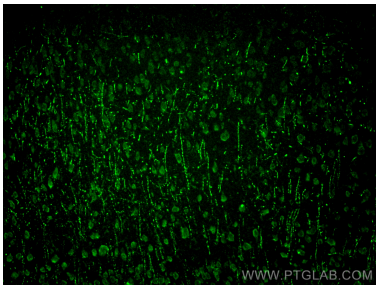
IP result of anti-PCDHA9 (IP:18075-1-AP, 4ug; Detection:18075-1-AP 1:300) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18075-1-AP (PCDHA9 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18075-1-AP (PCDHA9 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using PCDHA9 antibody (18075-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).