

Anti-Protocadherin-18 PCDH18 Antibody

Catalog Number: A12047

About PCDH18

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.

Overview

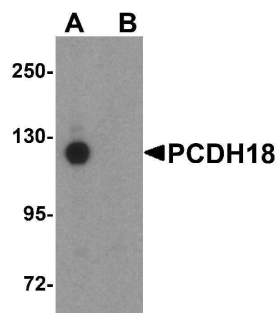
Product Name	Anti-Protocadherin-18 PCDH18 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Protocadherin-18 PCDH18 Antibody (Catalog # A12047). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	PCDH18 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	PCDH18 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9HCL0

Technical Details

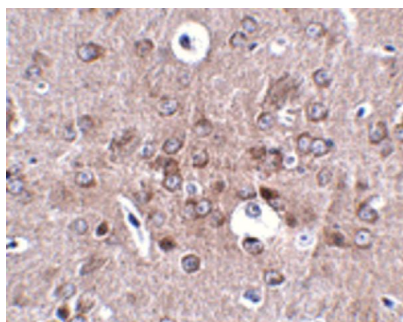
Immunogen	PCDH18 antibody was raised against a 17 amino acid synthetic peptide near the amino terminus of human PCDH18. The immunogen is located within amino acids 50 - 100 of PCDH18.
Predicted Reactive Species	Bovine
Cross Reactivity	At least three isoforms of PCDH18 are known to exist. This antibody is predicted to not cross-react with PCDH12.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

Purification	PCDH18 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	PCDH18 antibody can be used for detection of PCDH18 by Western blot at 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

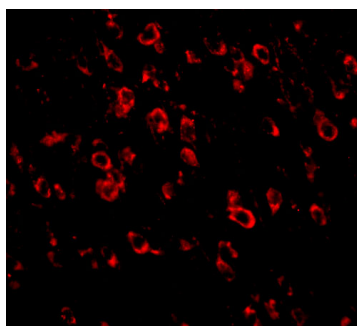
Anti-Protocadherin-18 PCDH18 Antibody (A12047) Images



Western blot analysis of PCDH18 in HepG2 cell lysate with PCDH18 antibody at 1 ug/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 ug/mL.



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

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Anti-Protocadherin-18 PCDH18 Antibody

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