

CDH12 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP1473b

Product Information

Application WB, IHC-P, E **Primary Accession** P55289 Reactivity Human Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB12870 **Calculated MW** 88332 **Antigen Region** 688-716

Additional Information

Gene ID 1010

Other Names Cadherin-12, Brain cadherin, BR-cadherin, Neural type cadherin 2, N-cadherin

2, CDH12

Target/Specificity This CDH12 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 688-716 amino acids from the

C-terminal region of human CDH12.

Dilution WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions CDH12 Antibody (C-term) is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name CDH12

Function Cadherins are calcium-dependent cell adhesion proteins. They

preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell

types.

Cellular Location Cell membrane; Single-pass type I membrane protein

Tissue Location Brain.

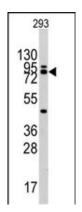
Background

CDH12 is a type II classical cadherin from the cadherin superfamily of integral membrane proteins that mediate calcium-dependent cell-cell adhesion. Mature cadherin proteins are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. Type II (atypical) cadherins are defined based on their lack of a HAV cell adhesion recognition sequence specific to type I cadherins. This particular cadherin appears to be expressed specifically in the brain and its temporal pattern of expression would be consistent with a role during a critical period of neuronal development, perhaps specifically during synaptogenesis.

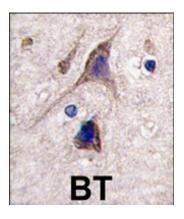
References

Shimoyama, Y., Biochem. J. 349 (PT 1), 159-167 (2000) Chalmers, I.J., Genomics 57 (1), 160-163 (1999) Kremmidiotis, G., Genomics 49 (3), 467-471 (1998) Selig, S., Proc. Natl. Acad. Sci. U.S.A. 94 (6), 2398-2403 (1997)

Images



Western blot analysis of CDH12 Antibody (C-term) (Cat.#AP1473b) in 293 cell line lysates (35ug/lane). CDH12(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with CDH12 antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.