10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CDH12 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1473a

Product Information

Application	WB, IHC-P, E
Primary Accession	P55289
Other Accession	Q5RJH3
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	88332
Antigen Region	62-90

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 62-90 amino acids from the N-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 (N-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.

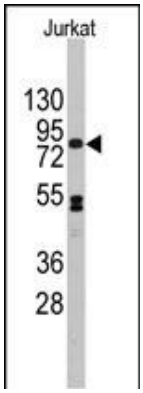
Background

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.

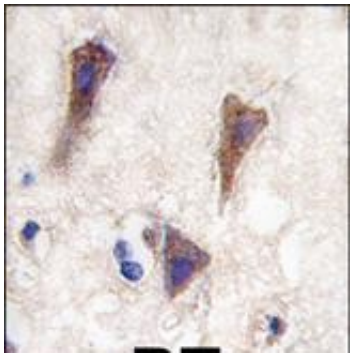
References

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 anti-CDH12 Antibody (N-term) (RB13742) in Jurkat 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 (N-term) (Cat.#AP1473a), 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.