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

PCDH1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12019A

Product Information

Application	WB, IHC-P, IF, E
Primary Accession	Q08174
Other Accession	NP_115796.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31671
Calculated MW	114743
Antigen Region	179-206

Additional Information

Gene ID	5097
Other Names	Protocadherin-1, Cadherin-like protein 1, Protocadherin-42, PC42, PCDH1
Target/Specificity	This PCDH1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 179-206 amino acids from the N-terminal region of human PCDH1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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	PCDH1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PCDH1
Function	May be involved in cell-cell interaction processes and in cell adhesion.
Cellular Location	Cell junction. Cell membrane; Single-pass type I membrane protein.

	Note=Found at cell- cell boundaries and probably at cell-matrix boundaries
Tissue Location	Highly expressed in the brain and neuro-glial cells

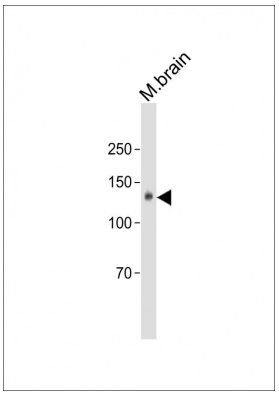
Background

This gene belongs to the protocadherin subfamily within the cadherin superfamily. The encoded protein is a membrane protein found at cell-cell boundaries. It is involved in neural cell adhesion, suggesting a possible role in neuronal development. The protein includes an extracelllular region, containing 7 cadherin-like domains, a transmembrane region and a C-terminal cytoplasmic region. Cells expressing the protein showed cell aggregation activity. Alternative splicing occurs in this gene.

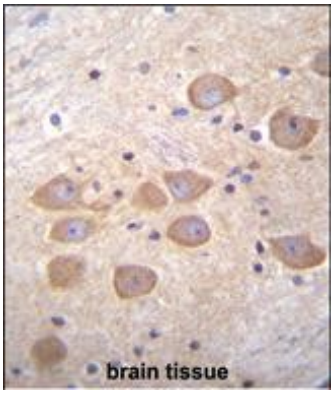
References

Koppelman, G.H., et al. Am. J. Respir. Crit. Care Med. 180(10):929-935(2009)
Rush, J., et al. Nat. Biotechnol. 23(1):94-101(2005)
Ballif, B.A., et al. Mol. Cell Proteomics 3(11):1093-1101(2004)
Ballif, B.A., et al. Mol. Cell Proteomics 3(11):1093-1101(2004)
Colland, F., et al. Genome Res. 14(7):1324-1332(2004)

Images

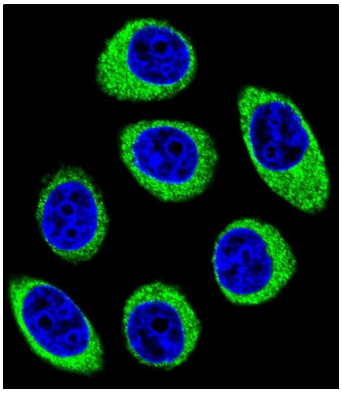


All lanes: Anti-PCDH1 Antibody (N-term) at 1:500 dilution + Mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 148 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



PCDH1 Antibody (N-term) (Cat. #AP12019a)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of PCDH1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Confocal immunofluorescent analysis of PCDH1 Antibody (N-term)(Cat#AP12019a) with U-251MG cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).



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