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

PCDHB14 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12321a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9Y5E9
Other Accession	NP_061757.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31603
Calculated MW	87548
Antigen Region	166-193

Additional Information

Gene ID	56122
Other Names	Protocadherin beta-14, PCDH-beta-14, PCDHB14
Target/Specificity	This PCDHB14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 166-193 amino acids from the N-terminal region of human PCDHB14.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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	PCDHB14 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PCDHB14
Function	Potential calcium-dependent cell-adhesion protein. May be involved in the establishment and maintenance of specific neuronal connections in the brain.

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

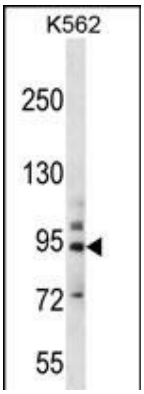
Background

This gene is a member of the protocadherin beta gene cluster, one of three related gene clusters tandemly linked on chromosome five. The gene clusters demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The beta cluster contains 16 genes and 3 pseudogenes, each encoding 6 extracellular cadherin domains and a cytoplasmic tail that deviates from others in the cadherin superfamily. The extracellular domains interact in a homophilic manner to specify differential cell-cell connections. Unlike the alpha and gamma clusters, the transcripts from these genes are made up of only one large exon, not sharing common 3' exons as expected. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins. Their specific functions are unknown but they most likely play a critical role in the establishment and function of specific cell-cell neural connections.

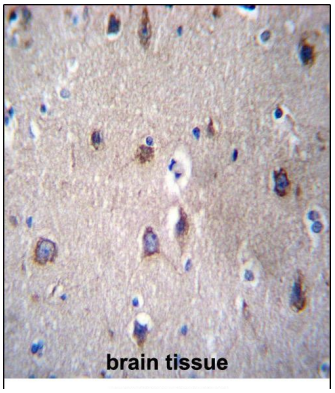
References

Frank, M., et al. Curr. Opin. Cell Biol. 14(5):557-562(2002)
Vanhalst, K., et al. FEBS Lett. 495 (1-2), 120-125 (2001) :
Wu, Q., et al. Genome Res. 11(3):389-404(2001)
Nollet, F., et al. J. Mol. Biol. 299(3):551-572(2000)
Yagi, T., et al. Genes Dev. 14(10):1169-1180(2000)

Images

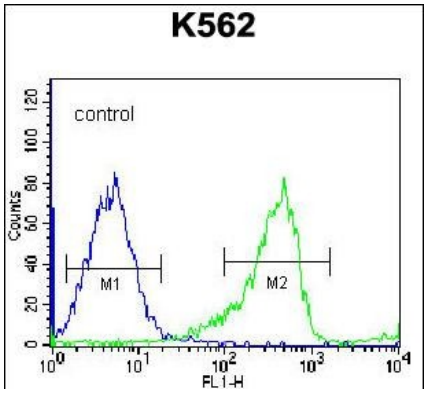


PCDHB14 Antibody (N-term) (Cat. #AP12321a) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the PCDHB14 antibody detected the PCDHB14 protein (arrow).



PCDHB14 Antibody (N-term) (Cat. #AP12321a)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 PCDHB14 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

PCDHB14 Antibody (N-term) (Cat. #AP12321a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



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