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

PCDHGA3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13611C

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9Y5H0
Other Accession	NP_061739.2, NP_114400.1
Reactivity	Human
Predicted	Mouse, Rat, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33029
Calculated MW	100971
Antigen Region	284-311

Additional Information

Gene ID	56112
Other Names	Protocadherin gamma-A3, PCDH-gamma-A3, PCDHGA3
Target/Specificity	This PCDHGA3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 284-311 amino acids from the Central region of human PCDHGA3.
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 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	PCDHGA3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PCDHGA3
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

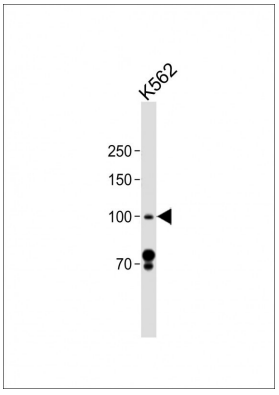
Background

This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been described for the gamma cluster genes.

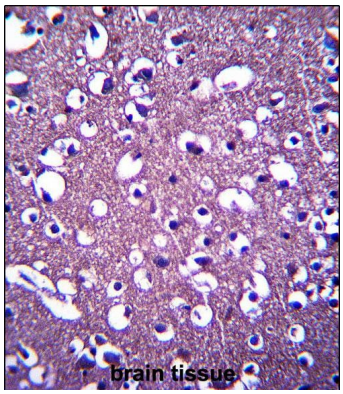
References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
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)
Wu, Q., et al. Proc. Natl. Acad. Sci. U.S.A. 97(7):3124-3129(2000)

Images

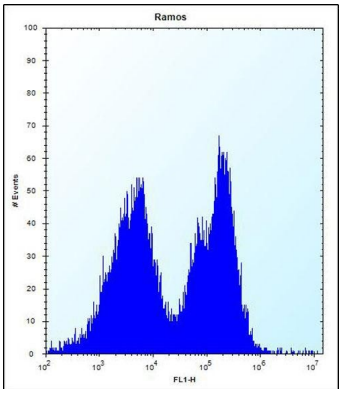


All lanes: Anti-PCDHGA3 Antibody (Center) at 1:1000 dilution + K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 100 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



PCDHGA3 Antibody (Center) (Cat. #AP13611c)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 PCDHGA3 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

PCDHGA3 Antibody (Center) (Cat. #AP13611c) flow cytometric analysis of Ramos cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary



antibodies were used for the analysis.

Citations

- Protocadherin γ A3 is expressed in follicular lymphoma irrespective of BCL2 status and is associated with tumor cell growth.

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