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PCDHGA3 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13611C

Specification

PCDHGA3 Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q9Y5H0
Other Accession	NP_061739.2, NP_114400.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**284-311**

PCDHGA3 Antibody (Center) - 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~~1:10~50
FC~~1:10~50

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
PCDHGA3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PCDHGA3 Antibody (Center) - 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.

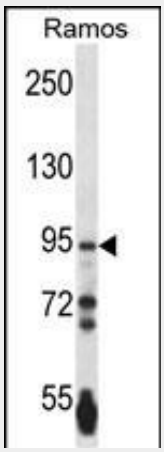
Cellular Location
Cell membrane; Single-pass type I membrane protein

PCDHGA3 Antibody (Center) - Protocols

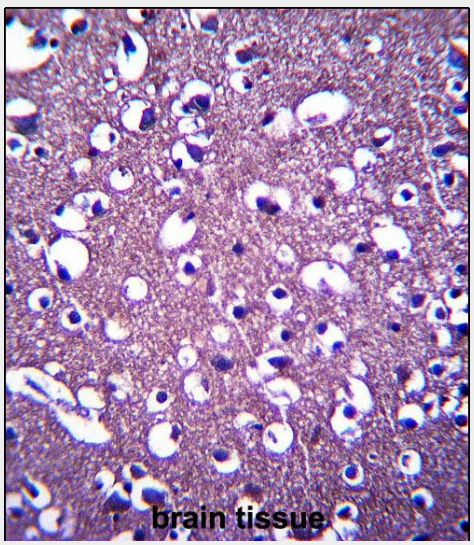
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PCDHGA3 Antibody (Center) - Images



PCDHGA3 Antibody (Center) (Cat. #AP13611c) western blot analysis in Ramos cell line lysates (35ug/lane).This demonstrates the PCDHGA3 antibody detected the PCDHGA3 protein (arrow).



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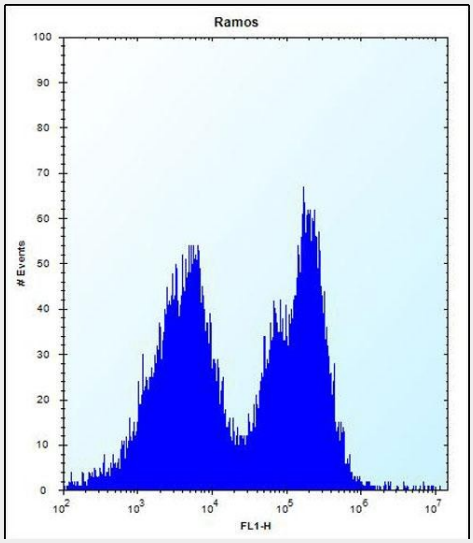
PCDHGA3 Antibody (Center) (Cat. #AP13611c)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of PCDHGA3 Antibody (Center) for immunohistochemistry. Clinical 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.

PCDHGA3 Antibody (Center) - 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.

PCDHGA3 Antibody (Center) - 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)

PCDHGA3 Antibody (Center) - Citations

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

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