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

PCDHAC2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12157C

Specification

PCDHAC2 Antibody (Center) - Product Information

Application	**FC, IF, IHC-P, WB,E**
Primary Accession	Q9Y5I4
Other Accession	NP_114089.1, NP_061722.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**109450**
Antigen Region	**616-644**

PCDHAC2 Antibody (Center) - Additional Information

Gene ID 56134

Other Names
Protocadherin alpha-C2, PCDH-alpha-C2, PCDHAC2

Target/Specificity
This PCDHAC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 616-644 amino acids from the Central region of human PCDHAC2.

Dilution
FC~~1:10~50
IF~~1:10~50
IHC-P~~1:10~50
WB~~1:1000
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
PCDHAC2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PCDHAC2 Antibody (Center) - Protein Information

Name PCDHAC2

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

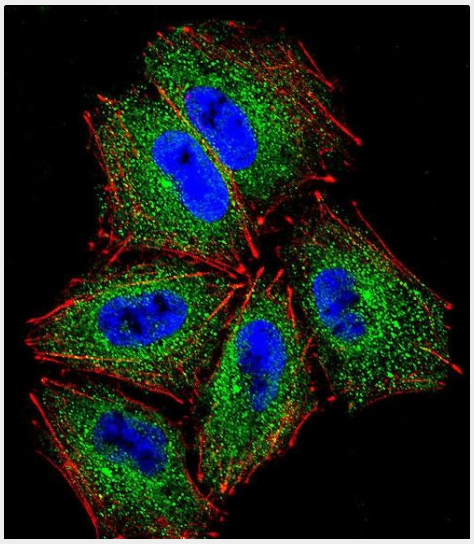
Cellular Location
Cell membrane; Single-pass type I membrane protein

PCDHAC2 Antibody (Center) - Protocols

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

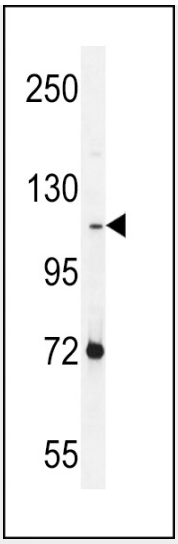
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PCDHAC2 Antibody (Center) - Images

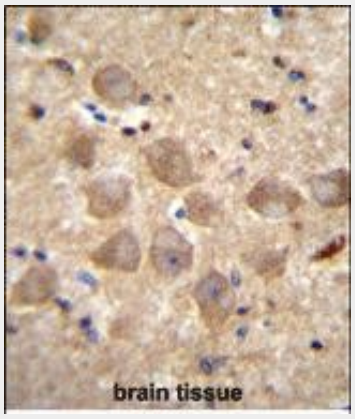


Confocal immunofluorescent analysis of PCDHAC2 Antibody (Center)(Cat#AP12157c) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).

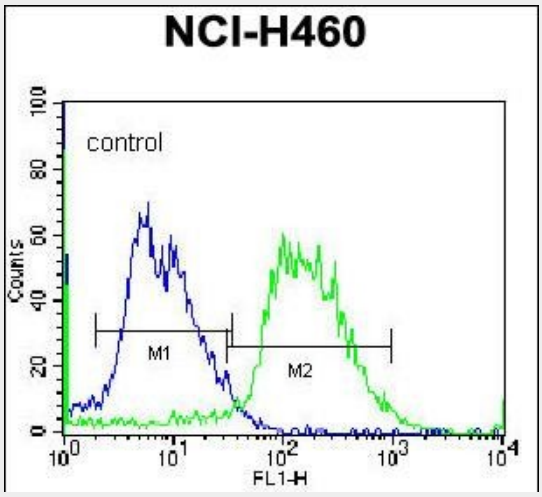
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



PCDHAC2 Antibody (Center) (Cat. #AP12157c) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the PCDHAC2 antibody detected the PCDHAC2 protein (arrow).



PCDHAC2 Antibody (Center) (Cat. #AP12157c)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 PCDHAC2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



PCDHAC2 Antibody (Center) (Cat. #AP31967) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated

donkey-anti-rabbit secondary antibodies were used for the analysis.

PCDHAC2 Antibody (Center) - Background

This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha gene cluster is composed of 15 cadherin superfamily genes related to the mouse CNR genes and consists of 13 highly similar and 2 more distantly related coding sequences. The tandem array of 15 N-terminal exons, or variable exons, are followed by downstream C-terminal exons, or constant exons, which are shared by all genes in the cluster. The large, uninterrupted N-terminal exons each encode six cadherin ectodomains while the C-terminal exons encode the cytoplasmic domain. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins that most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been observed and additional variants have been suggested but their full-length nature has yet to be determined.

PCDHAC2 Antibody (Center) - References

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)
Sugino, H., et al. Genomics 63(1):75-87(2000)