

## Product datasheet for **AP53204PU-N**

### PCDHAC2 (Center) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	This antibody is suitable for immunohistochemistry on paraffin sections, immunofluorescence and Western blotting. The suggested dilution is: <b>Immunofluorescence:</b> 1/10-1/50. <b>Immunohistochemistry on paraffin sections:</b> 1/10-1/50. <b>Western blotting:</b> 1/100-1/500.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	Synthetic peptide - KLH conjugated - corresponding to the central region (between 623-652aa) of human PCDHAC2.
Specificity:	This antibody detects human PCDHAC2.
Formulation:	PBS with 0.09% (W/V) Sodium Azide. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Purified through a protein A column; followed by peptide affinity purification.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	protocadherin alpha subfamily C, 2
Database Link:	<a href="#">Entrez Gene 56134 Human Q9Y5I4</a>



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**Background:**

The PCDHAC2 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.

**Synonyms:**

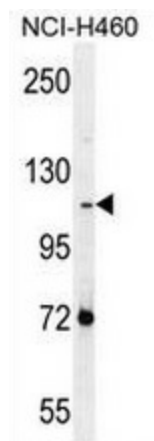
Protocadherin alpha-C2, PCDH-alpha-C2

**Note:**

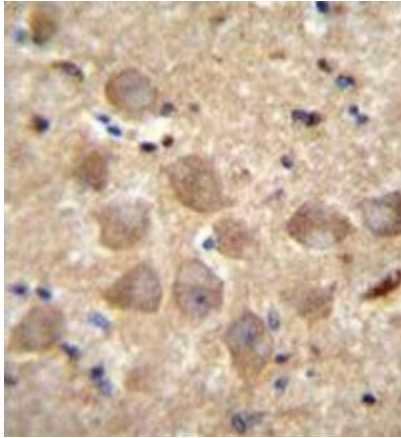
**Molecular Weight:** 109450 Da

**Protein Families:**

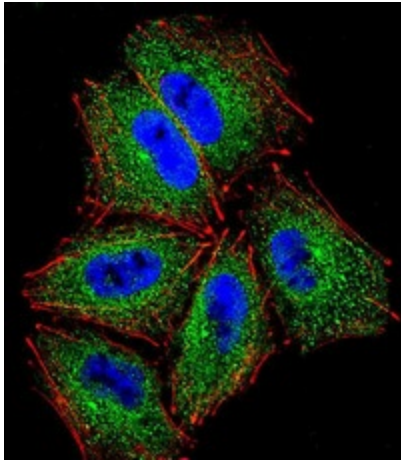
Transmembrane

**Product images:**

Western blot analysis in NCI-H460 cell line lysates (35ug/lane) using PCDHAC2 antibody. This demonstrates the PCDHAC2 antibody detected the PCDHAC2 protein (arrow).



Immunohistochemistry analysis in human brain tissue (formalin-fixed, paraffin-embedded) using PCDHAC2 antibody., followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of PCDHAC2 antibody for IHC. Clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of NCI-H460 cells using PCDHAC2 antibody., followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).