

## Product datasheet for **AP53197PU-N**

### PCDHA3 (C-term) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/1000. <b>Western blot:</b> 1/100 - 1/500. <b>Immunohistochemistry:</b> 1/10 - 1/50
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 780-808 amino acids from the C-terminal region of human PCDHA3
Specificity:	This antibody reacts to PCDHA3.
Formulation:	PBS State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.09% (W/V) sodium azide
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
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.
Predicted Protein Size:	102428 Da
Gene Name:	protocadherin alpha 3
Database Link:	<a href="#">Entrez Gene 56145 Human Q9Y5H8</a>



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**Background:**

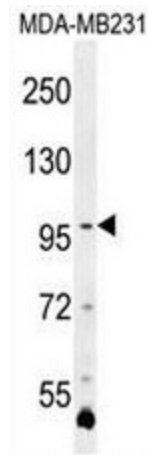
This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha gene cluster is composed of 15 cadherin superfamily 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.

**Synonyms:**

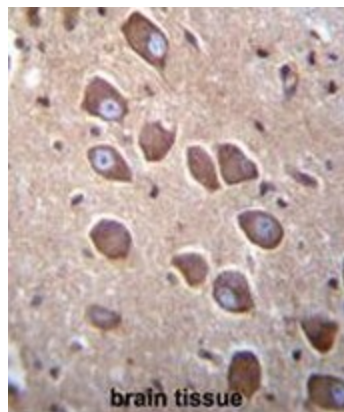
Protocadherin alpha-3, PCDH-alpha-3

**Protein Families:**

Transmembrane

**Product images:**

PCDHA3 Antibody (C-term) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the PCDHA3 antibody detected the PCDHA3 protein (arrow).



PCDHA3 Antibody (C-term) 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 PCDHA3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.