

Product datasheet for **AP53203PU-N**

PCDHA9 (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, WB
Recommended Dilution:	This antibody is suitable for flow cytometry and Western blotting. The suggested dilution is: Flow cytometry: 1/10-1/50. Western blotting: 1/100-1/500.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	Synthetic peptide - KLH conjugated - corresponding to the N-terminal region (between 233-26aa) of human PCDHA9.
Specificity:	This antibody detects human PCDHA9 at N-term.
Formulation:	PBS with 0.09% (W/V) Sodium Azide. State: Aff - Purified
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 9
Database Link:	Entrez Gene 9752 Human Q9Y5H5



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Background:

The PCDHA9 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:

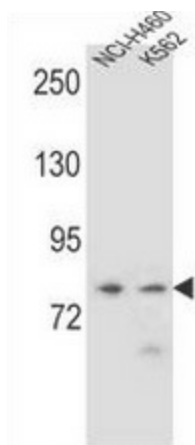
Protocadherin alpha-9, PCDH-alpha-9, KIAA0345

Note:

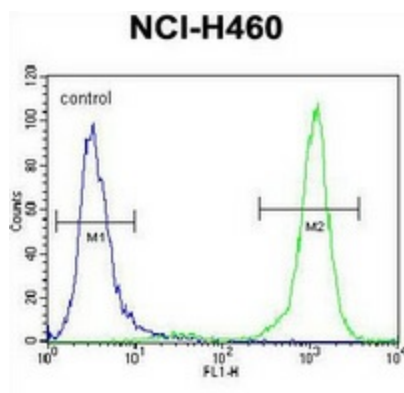
Molecular Weight: 91;297 Da Isoform2. 102402 Da

Protein Families:

Druggable Genome, Transmembrane

Product images:

Western blot analysis in NCI-H460, K562 cell line lysates (35ug/lane) using PCDHA9 antibody. (N-term). This demonstrates the PCDHA9 antibody detected the PCDHA9 protein (arrow).



Flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram) using PCDHA9 antibody. (N-term), followed by FITC-conjugated goat-anti-rabbit secondary antibodies.