

## Product datasheet for **AP53216PU-N**

### PCDHGC3 (Center) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	FC, IHC, WB
Recommended Dilution:	<b>Flow Cytometry:</b> 1/10-1/50. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/100. <b>Western blot:</b> 1/1000.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 511-539 amino acids from the to the central region of human PCDHGC3.
Specificity:	This antibody recognizes Human PCDHGC3. Other species not tested. Cellular Location: Cell membrane; Single-pass type I membrane protein.
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 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 gamma subfamily C, 3
Database Link:	<a href="#">Entrez Gene 5098 Human Q9UN70</a>



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**Background:**

The PCDHGC3 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.

**Synonyms:**

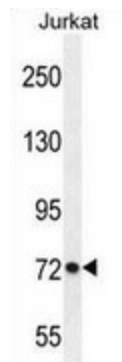
Protocadherin gamma-C3, PCDH-gamma-C3, Protocadherin-2, Protocadherin 2, PCDH2, Protocadherin-43, Protocadherin 43, PC-43, PC43

**Note:**

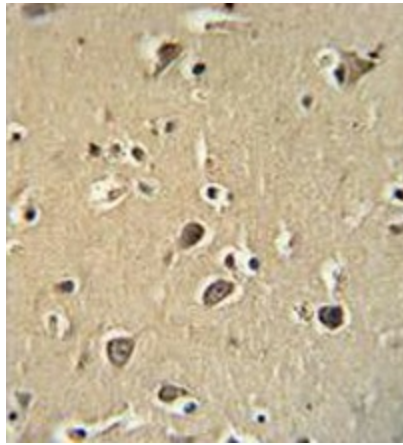
**Molecular Weight:** 101077 Da

**Protein Families:**

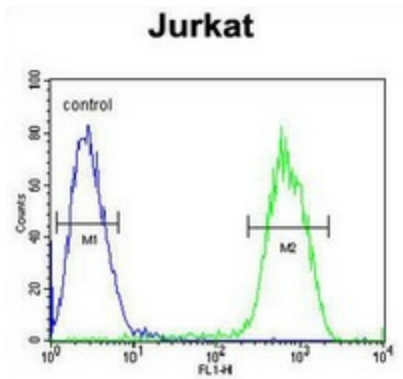
Transmembrane

**Product images:**

Western blot analysis in Jurkat cell line lysates (35ug/lane) using PCDHGC3 antibody. This demonstrates the PCDHGC3 antibody detected the PCDHGC3 protein (arrow).



Immunohistochemistry analysis human brain tissue (Formalin-fixed, Paraffin-embedded) using PCDHGC3 antibody., followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PCDHGC3 antibody for IHC; Clinical relevance has not been evaluated.



Flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram) using PCDHGC3 antibody., followed by FITC-conjugated goat-anti-rabbit secondary antibodies.