

**PCDHGA3 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13611c****Specification**

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**PCDHGA3 Antibody (Center) Blocking peptide - Product Information**

Primary Accession [Q9Y5H0](#)

**PCDHGA3 Antibody (Center) Blocking peptide - Additional Information**

**Gene ID** 56112

**Other Names**

Protocadherin gamma-A3, PCDH-gamma-A3, PCDHGA3

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13611c was selected from the Center region of PCDHGA3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PCDHGA3 Antibody (Center) Blocking peptide - Protein Information**

**Name** PCDHGA3

**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

**PCDHGA3 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**PCDHGA3 Antibody (Center) Blocking peptide - Images****PCDHGA3 Antibody (Center) Blocking peptide - Background**

This gene is a member of the protocadherin gamma genecluster, 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.

**PCDHGA3 Antibody (Center) Blocking peptide - References**

Rose, J. Phd, et al. Mol. Med. (2010) In press : 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)