

## Recombinant Human PCDHGA6 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PCDHGA6-4444H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | PCDHGA6 MS Standard C13 and N15-labeled recombinant protein (NP_061742) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | <p>This 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.</p> |
| <b>Molecular Mass</b>   | 97.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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**AA Sequence**

MAPPQRHPQRSEQVLLLTLLGTLWGAAAAQIRYSIPEELEKGSFVGNIVKDLGLEPQ  
 ELAEHGVRIVSRGRMQLFSLNPRNGSLVTAGRIDREELCAQSPRCLVSNILVEDKL  
 NLYPVEVEIVDINDNTPRFLKEELEVKILENAAPSSRFPLMEVYDPDVGMMNSLQGFKL  
 SGNSHFSVDVQSEAHGPKYPELVLEGLDREGEAVYRLVLTAMDGGDPVRSSVAQI  
 LVTVLDVNDNTPMFTQPVYRVSVPENLPVGTPVLAVTATDQDEGVHGEVTYSFVKIT  
 EKISQIFCLNVLTGEISTSANLDYEDSSFYELGVEARDGPGLRDRAKVLITILDVNDNV  
 PEVVVTSGSRTIAESAPPGTVIALFQVFDNRDGLNGLVTCSIPRSLPFELEKSVGNY  
 RLVTNAALDREEVFLYNITVTATDKGTPPLSTETIISLNVADTNDNPPTFPHSSYSVYV  
 LENNPRGASIFSVNALDPDVDQNAQVSYSLAEDTLQGAPLSSYVSINSDTGILYALRS  
 FDYEQRLDLQLWVTASDSGDPPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVE  
 LAPRSAEPGYLVTKVAVDRDSGQNAWLSYRLLKASEPGLFSVGLHTGEVRTARAL  
 LDRDALKQSLVAVQDHGQPPLSATVTLTVAVADRIPDILADLGSLEPSAKPNDSDLT  
 LYLVVAVAAVSCVFLAFVIVLLALRLQRWHKSRLQASGGGLASMPGSHFVGVEGV  
 RAFLQTYSHVSLTADSRKSHLIFQPQNYADTLINQESYEKSEPLLITQDLLETGGEPR  
 QLQQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEA  
 ADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAGKRDGK  
 APAGGNGNKKKSGKKEKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity**

> 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability**

Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage**

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration**

50 µg/mL as determined by BCA

**Storage Buffer**

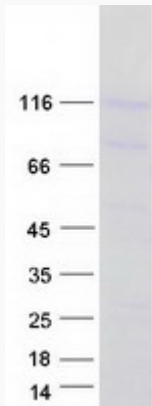
100 mM glycine, 25 mM Tris-HCl, pH 7.3.

**GENE INFORMATION**

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|------------------------|----------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PCDHGA6 protocadherin gamma subfamily A, 6 [ Homo sapiens (human) ]                                |
| <b>Official Symbol</b> | PCDHGA6                                                                                            |
| <b>Synonyms</b>        | PCDHGA6; protocadherin gamma subfamily A, 6; protocadherin gamma-A6; PCDH GAMMA A6; PCDH-GAMMA-A6; |
| <b>Gene ID</b>         | 56109                                                                                              |
| <b>mRNA Refseq</b>     | NM_018919                                                                                          |
| <b>Protein Refseq</b>  | NP_061742                                                                                          |
| <b>MIM</b>             | 606293                                                                                             |
| <b>UniProt ID</b>      | Q9Y5G7                                                                                             |
| <b>SDS-PAGE</b>        |                |