

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

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

SPECIFICATION

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

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AA Sequence

MAPPQRHPQRSEQVLLLTLLGTLWGAAAAQIRYSIPEELEKGSFVGNIVKDLGLEPQ
 ELAEHGVRIVSRGRMQLFSLNPRNGSLVTAGRIDREELCAQSPRCLVSNILVEDKL
 NLYPVEVEIVDINDNTPRFLKEELEVKILENAAPSSRFPLMEVYDPDVGMNSLQGFKL
 SGNSHFSVDVQSEAHGPKYPELVLEGLDREGEAVYRLVLTAMDGGDPVRSSVAQI
 LVTVLDVNDNTPMFTQPVYRVSVPENLPVGTPVLAVTATDQDEGVHGEVTYSFVKIT
 EKISQIFCLNVLTGEISTSANLDYEDSSFYELGVEARDGPGLRDRAKVLITILDVNDNV
 PEVVVTSGSRTIAESAPPGTVIALFQVFDRDSSLNGLVTCSIPRSLPFELEKSVGNY
 RLVTNAALDREEVFLYNITVTATDKGTPPLSTETIISLNVADTNDNPPTFPHSSYSVYV
 LENNPRGASIFSVNALDPDVDQNAQVSYSLAEDTLQGAPLSSYVSINSDTGILYALRS
 FDYEQLRDLQLWVTASDSGDPPSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVE
 LAPRSAEPGYLVTKVAVDRDSGQNAWLSYRLLKASEPGLFSVGLHTGEVRTARAL
 LDRDALKQSLVAVQDHGQPPLSATVTLTVAVADRIPDILADLGSLEPSAKPNDSDLT
 LYLVVAVAAVSCVFLAFVIVLLALRLQRWHKSRLQASGGGLASMPGSHFVGVEGV
 RAFLQTYSHVSLTADSRKSHLIFQPNYADTLINQESYEKSEPLLITQDLLETGGEPR
 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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Gene Name	PCDHGA6 protocadherin gamma subfamily A, 6 [Homo sapiens (human)]
Official Symbol	PCDHGA6
Synonyms	PCDHGA6; protocadherin gamma subfamily A, 6; protocadherin gamma-A6; PCDH GAMMA A6; PCDH-GAMMA-A6;
Gene ID	56109
mRNA Refseq	NM_018919
Protein Refseq	NP_061742
MIM	606293
UniProt ID	Q9Y5G7
SDS-PAGE	