Recombinant Human PCDHGC5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PCDHGC5-6107H **Lot. No.** (See product label)

SPECIFICATION

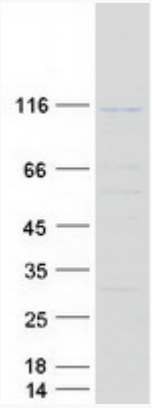
Product Overview	PCDHGC5 MS Standard C13 and N15-labeled recombinant protein (NP_115783) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on 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	95.1 kDa

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AA Sequence	MGPKTLPQLAGKWQVLCMLSLCCWGWVSGQLRYSVVEESEPGTLVGNVAQDLGL KMTDLLSRRLQLGSEENGRYFSLSLMSGALAVNQKIDRESLCGASTSCLLPVQVVTE HPLELIRVEVEILDLNDNSPSFATPEREMRISESAASGARFPLDSAQDPDVGTNTVSF YTLSPNSHFSLNVKTLKDGKPFPELVLEQQLDREAQARHQLVLTAVDGGTPARSGT TLISVIVLDINDNAPTFQSSVLRVGIPENAPIGTLLLRLNATDPDEGTNGQLDYSFGDH TSEAVRNLFGLDPSSGAIHVLGPIDFEESRFYEIHARARDQGQPAMEGHCVIQVDVG DVNDNAPEVLLASLANPVLESTPVGTVVGLFNVRDRDSGRNGEVSLDISPDLPFQIK PSENHYSLLTSQPLDREATSHYIIELLASDAGSPSLHKHLTIRLNISDVNDNAPRFNQQ LYTAYILENRPPGSLLCTVAASDPDTGDNARLTYSIVGNQVQGAPASSFVYVNPEDG RIFAQRTFDYELLQMLQIVVGVRDSGSPPLHANTSLHVFVLDENDNAPAVLHPRPG WEHSAPQRLPRSAPPGSLVTKVTAVDADAGHNAWLSYSLLPQSTAPGLFLVSTHTG EVRTARALLEDDSDTQQVVVLVRDNGDPSLSSTATVLLVLEDEDPEEMPKSSDFLIH PPERSDLTLYLIVALATVSLLSLVTFTFLSAKCLQGNADGDGGGGQCCRRQDSPSPD FYKQSSPNLQVSSDGTLKYMEVTLRPTDSQSHCYRTCFSPASDGSDFTFLRPLSVQ QPTALALEPDAIRSRSNTLRERSQVRGSAPPRATPGGGTGEAARPHKGLNLHPLLS GRLGRWLRSTRFSGSLDRLRGTRVADTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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	PCDHGC5 protocadherin gamma subfamily C, 5 [Homo sapiens (human)]
Official Symbol	PCDHGC5
Synonyms	PCDHGC5; protocadherin gamma subfamily C, 5; protocadherin gamma-C5; PCDH GAMMA C5; PCDH-GAMMA-C5; MGC138286; MGC138288;
Gene ID	56097
mRNA Refseq	NM_032407
Protein Refseq	NP_115783
MIM	606306
UniProt ID	Q9Y5F6
SDS-PAGE	

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