

Recombinant Human PCDHGB2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PCDHGB2-6675H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PCDHGB2 MS Standard C13 and N15-labeled recombinant protein (NP_115267) 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	88.4 kDa

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AA Sequence

MKASSGRCGLVRWLQVLLPFLSLFPGALPVQIRYSIPEELAKNSVVGNLAKDLGLS
VRDLPARKLRVSAEKEYFTVNPESGDLLVSDRIDREQICGKQPLCVLDFDTVAENPL
NIFYIAVIVQDINDNTPLFKQTKINLKIGESTKPGTTFPLDPALDSDVGPNSLQRYHLND
NEYFDLAEKQTPDGRKYPELILKHSLEDREEHSLHQLVLTAVDGGDPPQSGTTQIRIKV
TDANDNPPVFSQDVYRVTLREDVPPGFFVLQVTATDRDEGINAEITYSFHNVDEQVK
HFFNLNEKTGEITTKDDLDFEIASSTYLSIEAKDPGDLAAHCSIQVEILDDNDCAPEVIV
TSVSTPLPEDSPPGTVIALIKTRDRDSGENGEVYCQVLGNAKFIKSSSKNYYKLVT
GALDREEIPEYNLTITATDGGKPPLSSSIIVTLHISDVNDNAPVFQQTSMVHVAENNP
PGASIAQISASDPDLGPGSQVSYSIVASDLKPREILSYVSVSAQSGVVFAQRAFDHE
QLRAFELTLQARDQGSPALSANVSLRVLVGDLNDNAPRVLYPALGPDGSALFDMVP
RAAEPGYLVTKVVAVDADSGHNAWLSYHVLQASEPGLFSLGLRTGEVRTARALGDR
DAARQRLVAVRDGGQPPLSATATLHLIFADSLQEVLPDLSDRREPSDPQAKLQFYL
VVALALISVLFFLAVILAISLRLRLSSRSDAWDCFQPLSSKPGPGVLPNYSEGTLPLYS
YNLCVASQSAKTEFNFLNITPELVPAQDLVCDNASWEQNTNHGAAGVPFASDTILKV
SFNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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
Gene Name

PCDHGB2 protocadherin gamma subfamily B, 2 [Homo sapiens (human)]

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Official Symbol	PCDHGB2
Synonyms	PCDHGB2; protocadherin gamma subfamily B, 2; protocadherin gamma-B2; PCDH GAMMA B2; PCDH-GAMMA-B2; MGC126854;
Gene ID	56103
mRNA Refseq	NM_032096
Protein Refseq	NP_115267
MIM	606300
UniProt ID	Q9Y5G2
SDS-PAGE	