

Recombinant Human PCDHGA2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PCDHGA2-5450H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PCDHGA2 MS Standard C13 and N15-labeled recombinant protein (NP_114398) 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	90.3 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence

MAALQKLPHCRKLVLLCFLLATLWEARAGQIRYSVREEIDRGSFVGNIKDLGLEPLA
 LAEQGVRIIVSRGRSQLFALNPRSGSLVTANRIDREELCAQSAPCLLNFNILLEDKLTIIY
 SVEVEITDINDNAPRFGVEEELKISETTTTPGFRIPLKNAHDADVGENALQKYALNPN
 DHFSLDVRRGADGNKYPELVLSLDREEEAVHHLVLVASDGGDPVLSGTSRICVK
 VLDANDNAPVFTQPEYRISIPENTLVGTRILTVTATDADEGYAQQVVFLEKSPGETS
 EVFELKSTSGELTIKDLDYEDATFHEIDIEAQDGPGLLTRAKVIVTVLDVNDNAPEFY
 MTSATSSVSEDSLPGTIIGLFNVHDRDSGQNAFTTCSLPEDLPFKLEKSVDNYYRLVT
 TRALDREQFSFYNITLTAKDGGNPSLSTDAHILLQVADINDNAPAFSRTSYSTYIPENN
 PRGASVFSVTAHDPDSNDNAHVITYSFAEDTVQGAPLSSYISINSDTGVLYALRSFDY
 EQLRDLQVWVIARDSGNPPLSSNVSLSLFVLDQNDNAPEILYPAFPTDGSTGVELAP
 RSAEPGYLVTKVVAVDRDSGQNAWLSYHLLKASEPGLFSVGLHTGEVRTARALLDR
 DALKQSLVVAIQDHGQPPLSATVTLTVAVADRIPDILADLGSLPSAIPNDSDLTLYLV
 VAVAAVSCVFLAFVIVLLAHLRRWHKSRLQASGGSLTGMQSSHFGVDGVRAFL
 QTYSHEVSLTADSRKSHLIFPQPNYADTLISQESCEKKDFLSAPQSLLEEEEREETFSQ
 VIYLFTTYVLASLLKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

PCDHGA2 protocadherin gamma subfamily A, 2 [Homo sapiens (human)]

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Official Symbol	PCDHGA2
Synonyms	PCDHGA2; protocadherin gamma subfamily A, 2; protocadherin gamma-A2; PCDH GAMMA A2; PCDH-GAMMA-A2;
Gene ID	56113
mRNA Refseq	NM_032009
Protein Refseq	NP_114398
MIM	606289
UniProt ID	Q9Y5H1
SDS-PAGE	