

Recombinant Human PCDHGA12 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PCDHGA12-3458H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PCDHGA12 MS Standard C13 and N15-labeled recombinant protein (NP_003726) 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	100.96 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

MIPARLHRDYKGLVLLGILLGTLWETGCTQIRYSVP EELEKGSRVGDISRDLGLEPRE
 LAERGVR IIPRGRTQLFALNPRSGSLVTAGRIDREELCMGAIKCQLNLDILMEDKVKIY
 GVEVEVRDINDNAPYFRESELEIKISENAATEMRFP LPHAWDPDIGKNSLQSYELSPN
 THFSLIVQNGADGSKYPELVLKRALDREEKAAHHLVLTASDGGDPVRTGTARIRVMV
 LDANDNAPAFAPQPEYRASVPENLALGTQLLVNATDPDEGVNAEVRYSFRYVDDKA
 AQVFKLDCNSGTISTIGELDHEESGFYQMEVQAMDNAGYSARAKVLITVLDVNDNAP
 EVVLTSLASSVPENSPRGTLIALLNVDQDSEENGQVICFIQGNLPFKLEKSYGNYY
 LVTDIVLDREQVPSYNITVTATDRGTPPLSTETHISLNVADTNDNPPVFPQASYSAYIP
 ENNPRGVSLVSVTAHDPDCEENAQITYSLAENTIQQASLSSYVSINSDTGVLYALSSF
 DYEQFRDLQVKVMARDNGHPPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVE
 LAPRSAEPGYLVTKVAVDRDSGQNAWLSYRLLKASEPGLFSVGLHTGEVRTARAL
 LDRDALKQSLVAVQDHGQPPLSATVTLTVAVADSIPQVLADLGSLESPANSETSDL
 TLYLVVAVAAVSCVFLAFVILLALRLRRWHKSRLQASGGGLTGAPASHFVGVDGV
 QAFLQTYSHVSLTTDSRKSHLIFQPQNYADMLVSQESFEKSEPLLLSGDSVFSKDS
 HGLIEQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASE
 AADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAGKRDG
 KAPAGGNGNKKKSGKKEKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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	PCDHGA12 protocadherin gamma subfamily A, 12 [Homo sapiens (human)]
Official Symbol	PCDHGA12
Synonyms	PCDHGA12; protocadherin gamma subfamily A, 12; cadherin 21, CDH21; protocadherin gamma-A12; FIB3; fibroblast cadherin FIB3; KIAA0588; PCDH GAMMA A12; cadherin 21; cadherin-21; fibroblast cadherin-3; CDH21; PCDH-GAMMA-A12;
Gene ID	26025
mRNA Refseq	NM_003735
Protein Refseq	NP_003726
MIM	603059
UniProt ID	O60330
SDS-PAGE	