

Recombinant Full Length Human PCDHGA12 Protein, Flag tagged

Cat. No. PCDHGA12-03HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human protocadherin gamma subfamily A, 12 (PCDHGA12), transcript variant 1 with C-Flag tag was expressed in HEK293T.
Species	Human
Source	HEK293
ProteinLength	1-932 aa
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.

 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

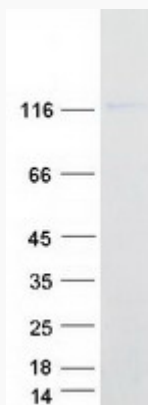
Tag	C-Flag
Molecular Mass	97.7 kDa
AA Sequence	MIPARLHRDYKGLVLLGILLGTLWETGCTQIRYSVP EELEKGSRVGDISRDLGLEPRE LAERGVRIIPRGRTQLFALNPRSGSLVTAGRIDREELCMGAIKCQLNLDILMEDKVKIY GVEVEVRDINDNAPYFRESELEIKISENAATEMRFPLPHAWDPDIGKNSLQSYELSPN THFSLIVQNGADGSKYPELVLKRALDREEKAAHHLVLTASDGGDPVRTGTARIRVMV LDANDNAPAFAPQPEYRASVPENLALGTQLLVNATDPDEGVNAEVRYSFYVDDKA AQVFKLDCNSGTISTIGELDHEESGFYQMEVQAMDNAGYSARAKVLITVLDVNDNAP EVVLTSLASSVPENSPRGTLIALLNVDQDSEENGQVICFIQGNLPFKLEKSYGNYY LVTDIVLDREQVPSYNITVTATDRGTPPLSTETHISLNVADTNDNPPVFPQASYSAYIP ENNPRGVSLVSVTAHDPDCEENAQITYSLAENTIQGASLSSYVSINSDTGVLYALSSF DYEQFRDLQVKVMARDNGHPPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVE LAPRSAEPGYLVTKVAVDRDSGQNAWLSYRLLKASEPGLFSVGLHTGEVRTARAL LDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPQVLADLGSLESPANSETSDL TLYLVVAVAAVSCVFLAFVILLALRLRRWHKSRLQASGGGLTGAPASHFVGVDGV QAFLQYTYSHEVSLTTDSRKSHLIFQPQNYADMLVSQESFEKSEPLLSGDSVFSKDS HGLIEQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASE AADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAGKRDG KAPAGGNGNKKKSGKKEKKTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage	Store at -80 centigrade.
Storage Buffer	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Concentration	>0.05 µg/µL as determined by microplate BCA method
GENE INFORMATION	
Gene Name	PCDHGA12 protocadherin gamma subfamily A, 12 [Homo sapiens]
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

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SDS-PAGE

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