

Recombinant Full Length Human PCDHGA12 Protein, GST-tagged

Cat. No. PCDHGA12-04HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human PCDHGA12 full-length ORF (NP_003726.1, 1 a.a. - 932 a.a.) recombinant protein with GST-tag at N-terminal was expressed in E. coli Cell Free System.
Species	Human
Source	E. coli Cell Free System
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.

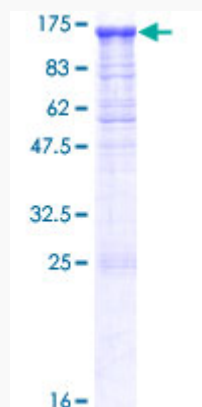
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 45-1 Ramsey Road, Shirley, NY 11967, USA

Tag	GST
Molecular Mass	127.4 kDa
AA Sequence	MIPARLHRDYKGLVLLGILLGTLWETGCTQIRYSVP EELEKGSRVGDISRDLGLEPRE LAERGVRIIPRGRTQLFALNPRSGSLVTAGRIDREELCMGAIKCQLNLDILMEDKVKIY GVEVEVRDINDNAPYFRESELEIKISENAATEMRFP LPHAWDPDIGKNSLQSYELSPN THFSLIVQNGADGSKYPELVLKRALDREEKAAHHLVLTASDGGDPVRTGTARIRVMV LDANDNAPAFAPQPEYRASVPENLALGTQLLVVNATDPDEGVNAEVRYSFRYVDDKA AQVFKLDCNSGTISTIGELDHEESGFYQMEVQAMDNAGYSARAKVLITVLDVNDNAP EVVLTSLASSVPENSPRGTLIALLNVDQDSEENGQVICFIQGNLPFKLEKSYGNYY LVTDIVLDREQVPSYNITVTATDRGTPPLSTETHISLNVADTNDNPPVFPQASYSAYIP ENNPRGVSLVSVTAHDPDCEENAQITYSLAENTIQQASLSSYVSINSDTGVLYALSSF DYEQFRDLQVKVMARDNGHPPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVE LAPRSAEPGYLVTKVVAVD RDSGQNAWLSYRLLKASEPGLFSVGLHTGEVRTARAL LDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPQVLADLGSLESPANSETSDL TLYLVVAVAAVSCVFLAFVILLALRLRRWHKSRL LQASGGGLTGAPASHFVGVDGV QAF LQTYSHEVSLTTDSRKSHLIFQPQNYADMLVSQESFEKSEPLLLSGDSVFSKDS HGLIEQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASE AADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAGKRDG KAPAGGNGNKKKSGKKEKK
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array

Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
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

SDS-PAGE

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