

Recombinant Human PCDHGA2 protein, His & T7-tagged

Cat. No. PCDHGA2-1125H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCDHGA2 aa. (Gly29~Phe347 (Accession # Q9Y5H1) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gly29~Phe347
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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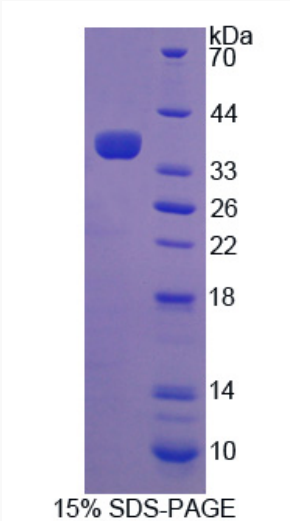
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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 38.9kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 4.5.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
GENE INFORMATION	
Gene Name	PCDHGA2 protocadherin gamma subfamily A, 2 [Homo sapiens (human)]
Official Symbol	PCDHGA2

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Synonyms	PCDHGA2; protocadherin gamma subfamily A, 2; PCDH-GAMMA-A2; protocadherin gamma-A2
Gene ID	56113
mRNA Refseq	NM_018915.3
Protein Refseq	NP_061738.1
UniProt ID	Q9Y5H1
SDS-PAGE	 15% SDS-PAGE