

Product datasheet for TP310863L

PCDHGA2 (NM_032009) Human Recombinant Protein

Product data:

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|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human protocadherin gamma subfamily A, 2 (PCDHGA2), transcript variant 2, 1 mg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC210863 protein sequence Red =Cloning site Green =Tags(s) |

MAALQKLPHCRKLVLLCFLLATLWEARAGQIRYSVREEIDRGSFVGNIAKDLGLEPLALAEQGVRIIVSRG
RSQLFALNPRSGSLVTANRIDREELCAQSAPCLLNFNILLEDKLIYSVEVEITDINDNAPRFGVEEEL
KISSETTPGFRIPLKNAHDADVGENALQKYALNPNDHFSLDVRRGADGNKYPELVRLERSLDREEEAVHHL
VLVASDGGDPVLSGTSRICVKVLDANDNAPVFTQPEYRISIPENTLVGTRILTVTATDADEGYAQQVYF
LEKSPGETSEVFELKSTSGELTIKDLDYEDATFHEIDIEAQDGPGLLTRAKVIVTVLDVNDNAPEFYMT
SATSSVSEDSLPGTIIGLFNVHDDRDSGQNAFTTCSLPEDLPFKLEKSVDNYRLVTRALDREQFSFYNI
TLTAKDGGNPSLSTDAHILLQVADINDNAPAFSRTSYSTYIPENNPRGASVFSVTAHPDSDNDAHVTYS
FAEDTVQGAPLSSYSISINSDTGVLALRSFDYEQLRDLQVWVIARDSGNPPLSSNVSLFVLDQNDNAP
EILYPAFPTDGGSTGVELAPRSAEPGYLVTKVAVDRDSGQNAWLSYHLLKASEPGLFVGLHTGEVRTAR
ALLDRDALKQSLVVAIQDHGQPPLSATVTLTVAVADRIPDILADLGSLEPSAIPNDSDLTYLVVAVAAV
SCVFLAFVIVLLAHLRRLRWKSRLLQASGGSLTGMQSSHVGVGVDGVRFLQTSHEVSLTADSRKSHLIF
PQPNYADTLISQESCEKKDFLSAPQSLLEEREETFSQVIYLFTTYVLASLLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|------------------------------------------------------------------------------------------------------------------|
| Tag: | C-Myc/DDK |
| Predicted MW: | 87 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |



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Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_114398](#)

Locus ID: 56113

UniProt ID: [Q9Y5H1](#)

RefSeq Size: 2735

Cytogenetics: 5q31.3

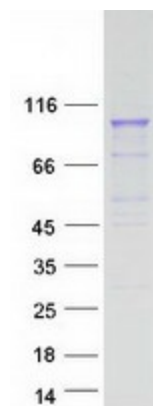
RefSeq ORF: 2469

Synonyms: PCDH-GAMMA-A2

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Transmembrane

Product images:



Coomassie blue staining of purified PCDHGA2 protein (Cat# [TP310863]). The protein was produced from HEK293T cells transfected with PCDHGA2 cDNA clone (Cat# [RC210863]) using MegaTran 2.0 (Cat# [TT210002]).