

Product datasheet for PH310863

PCDHGA2 (NM_032009) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PCDHGA2 MS Standard C13 and N15-labeled recombinant protein (NP_114398)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210863
Predicted MW:	90.3 kDa
Protein Sequence:	>RC210863 protein sequence Red=Cloning site Green=Tags(s)

MAALQKLPHCRKLVLLCFLLATLWEARAGQIRYSVREEIDRGSFVGNIAKDLGLEPLALAEQGVRIVSRG
RSQLFALNPRSGSLVTANRIDREELCAQSAPCLLNFNILLEDKLTIIYSVEVEITDINDNAPRFGVEEEL
KISSETTPGFRIPLKNAHDADVGENALQKYALNPNDHFLSDVRRGADGNKYPELVLERSLDREEEAVHHL
VLVASDGGDPVLSGTSRICKVLDANDNAPVFTQPEYRISIPENTLVGTRILTVTATDADEGYAQQVYVYF
LEKSPGETSEVFELKSTSGELTIIKLDYEDATFHEIDIEAQDGPGLL TRAKVIVTVLVDNDNAPEFYMT
SATSSVSEDSLPGTIIIGLFNVHVRDSDGQNAFTTCSLPEDLPFKLEKSVNYYRLVTTRALDREQSFYNI
TLTAKDGGNPSLSTDAHILLQVADINDNAPAFSRTSYSTYIPENNPRGASVFSVTAHDPDSNDNAHVITYS
FAEDTVQGAPLSSYISINSDTGVLVALRSFDYEQLRDLQVWVIARSDGNPPLSSNVSLSLFVLDQNDNAP
EILYPAFPTDGSSTGVELAPRSAEPGYLVTKVAVDRDSDGQNAWLSYHLLKASEPGLFSVGLHTGEVTRAR
ALLDRDALKQSLVVAIQDHGQPPLSATVTLTVAVADRIPIADLGSLEPSAIPNDSDLTYLVVAVAAV
SCVFLAFVIVLLAHLRRWHKSRLQASGGSLTGMQSSHVGVVDGVRFLQTYSHVSLTADSRKSHLIF
PQPNYADTLISQESCEKKDFLSAPQSLLEEREETFSQVIYLFTTYVLASLLK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_114398</u>



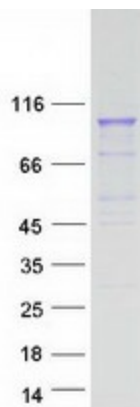
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RefSeq Size:	2735
RefSeq ORF:	2469
Synonyms:	PCDH-GAMMA-A2
Locus ID:	56113
UniProt ID:	Q9Y5H1
Cytogenetics:	5q31.3

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]).