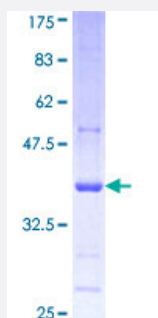


PCDHGA1 (Human) Recombinant Protein (Q01)

Catalog # H00056114-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PCDHGA1 partial ORF (NP_061735, 241 a.a. - 340 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	AFTQAQYHINVPENVPLGTQLLMVNATDPDEGANGEVTYSFHNVDHRVAQIFRLDSYTGEISNKEP LDFEYKMYSMEVQAQDGAGLMAKVKVLKVLVDV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (78); Rat (80)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PCDHGA1

Entrez GeneID [56114](#)

GeneBank Accession# [NM_018912](#)

Protein Accession# [NP_061735](#)

Gene Name PCDHGA1

Gene Alias MGC138287, MGC138289, PCDH-GAMMA-A1

Gene Description protocadherin gamma subfamily A, 1

Omim ID [606288](#)

Gene Ontology [Hyperlink](#)

Gene 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]

Other Designations -

Disease

- [Tobacco Use Disorder](#)