

Product Information

MemDX™ Membrane Protein Human PCDHGA6 (Protocadherin gamma subfamily A, 6) for Antibody Discovery

Cat. No.: **MP0447J**

This product is for research use only and is not intended for diagnostic use.

This product is a 97.7 kDa Human PCDHGA6 membrane protein expressed in HEK293T. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

PCDHGA6

Protein Length

Full-length

Protein Class

Transmembrane

Molecular Weight

97.7 kDa

TMD

1

Sequence

MAPPQRHPQRSEQVLLLTLLGTLWGAAAAQIRYSIPEELEKGSFVGNIVKDLGLEPQELAEHGVRIVSRG
RMQLFSLNPRNGSLVTAGRIDREELCAQSPRCLVSFNILVEDKLNLYPVEVEIVDINDNTPRFLKEELEV
KILENAAPSSRFPLMEVYDPDVGMNSLQGFKLSGNSHFSDVQSEAHGPKYPELVLEGTLDREGEAVYRL
VLTAMDGGDPVRSSVAQILVTVLVDVNDNTPMFTQPVYRVSVPENLPVGTPLAVTATDQDEGVHGEVTYS
FVKITEKISQIFCLNVLGTGEISTSANLDYEDSSFYELGVEARDGPGLRDRAKVLITILDVNDNVPEVVVT
SGSRTIAESAPPGTVIALFQVFDSDGLNGLVTCISPRSLPFELEKSVGNYYRLVTNAALDREEVFLYNI
TVTATDKGTPPLSTETIISLNVADTNDNPPTFPHSSYSVYVLENNPRGASIFSVNALDPDQNAQVSYS
LAEDTLQGAPLSSYVSINSDTGILYALRSFDYEQLRDLQLWVTASDSGDPPLSSNVSLSLFVLDQNDNAP
EILYPALPTDGGSTGVELAPRSAEPGYLVTKVAVDRD SGQNAWLSYRLLKASEPGLFSVGLHTGEVRTAR
ALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADRIPDILADLGSLEPSAKPNDSDLTYLVVAVAAV
SCVFLAFVIVLLALRLQRWHKSRLLQASGGGLASMPGSHFVGVEGVRAFLQTSHEVSLTADSRKSHLIF
PQPNYADTLINQESYEKSEPLLITQDLLETKGEPRLQQAAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPN
NQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAGK
RDGKAPAGGNGNKKKSGKKEKK

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

PCDHGA6

Full Name

Protocadherin gamma subfamily A, 6

Introduction

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.

Alternative Names

PCDH-GAMMA-A6

Gene ID

[56109](#)

UniProt ID

[Q9Y5G7](#)