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Product Information

MemDX™ Membrane Protein Human PCDHGA12 (Protocadherin gamma subfamily A, 12) for Antibody Discovery

Cat. No.: **MP0465J**
This product is for research use only and is not intended for diagnostic use.

This product is a 97.7 kDa Human PCDHGA12 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
PCDHGA12

Protein Length
Full-length

Protein Class
Transmembrane

Molecular Weight
97.7 kDa

TMD
1

Sequence
MIPARLHRDYKGLVLLGILLGTLWETGCTQIRYSVPEELEKGSRVGDISRDLGLEPRELAERGVRIIPRG
RTQLFALNPRSGSLVTAGRIDREELCMGAIKCQLNLDILMEDKVKIYGVEVEVRDINDNAPYFRESELEI
KISENAATEMRFPLPHAWDPDIGKNSLQSYELSPNTHFSLIVQNGADGSKYPELVLKRALDREEKAAHHL
VLTASDGGDPVRTGTARIRVMVLDANDNAPAFAQPEYRASVPENLALGTQLLVVNATDPDEGVNAEVRYS
FRYVDDKAAQVFKLDCNSGTISTIGELDHEESGFYQMEVQAMDNAGYSARAKVLITVLDVNDNAPEVVLT
SLASSVPENSPRGTLIALLNVNDQDSEENGQVICFIQGNLPFKLEKSYGNYYSLVTDIVLDREQVPSYNI
TVTATDRGTPPLSTETHISLNVADTNDNPPVFPQASYSAYIPENNPRGVSLVSVTAHDPDCEENAQITYS
LAENTIQGASLSSYVSINSDTGVLYALSSFDYEQFRDLQVKVMARDNGHPPLSSNVSLSLFVLDQNDNAP
EILYPALPTDGSTGVELAPRSAEPGYLVTKVVAVDRDSGQNAWLSYRLLKASEPGLFSVGLHTGEVRTAR
ALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPQVLADLGSLESPANSETSDLTLYLVVAVAAV
SCVFLAFVILLLALRLRRWHKSRLLQASGGGLTGAPASHFVGVDGVQAFLQTYSHEVSLTTDSRKSHLIF
PQPNYADMLVSQESFEKSEPLLLSGDSVFSKDSHGLIEQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPN
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
PCDHGA12

Full Name
Protocadherin gamma subfamily A, 12

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
CDH21; FIB3; PCDH-GAMMA-A12

Gene ID
26025

UniProt ID
O60330

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