

Recombinant Human PCDHB11

Cat. No. PCDHB11-1562H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCDHB11 was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	This gene is a member of the protocadherin beta gene cluster, one of three related gene clusters tandemly linked on chromosome five. The gene clusters demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The beta cluster contains 16 genes and 3 pseudogenes, each encoding 6 extracellular cadherin domains and a cytoplasmic tail that deviates from others in the cadherin superfamily. The extracellular domains interact in a homophilic manner to specify differential cell-cell connections. Unlike the alpha and gamma clusters, the transcripts from these genes are made up of only one large exon, not sharing common 3' exons as expected. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins. Their specific functions are unknown but they most likely play a critical role in the establishment and function of specific cell-cell neural connections.
Form	Liquid
Molecular Mass	87.7 kDa
AA Sequence	MENQGTTRTQQIRQVLLLFVLLGMSQAGSETWSFSVAEEMQSGSFVGNLAKDLGLK VRELSSRGARVVSNDKKQRL QLDINTGDLLLSETLDREELCGSIEPCVLHLQVLMQN

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PTQFLQIELQVRDINDHSPIFSEKQMLLEIPENSPVGA VFLLES AKDL DVGINAVKSYT
 ISPNSHFHIKMRVIPDNRKYPELVLDKALDYEELPELSFILSALDGGSPPRSGT ALVR
 VVVVDINDNSPEFEQAFYEVKIRENSILGSLILIVSAWDLDSGTNGEICYTFSHASEDIR
 KTFEINQKSGE ITLRAPLDFETIESYSIIIQATDGGGLFGKSTVIIHVIDVNDNAPEITVS
 SITSPIENTPETVVMVFSIQDIDS GDNGRIVCSIPEDLPFVLKSSVENYYTLETERPL
 DRESTAEYNITITVTDLGIPRLKTEHNTTVLVSDVNDNAPT FTQTSYTLFVRENNSPA
 LHIGSVSATDRDSGTNAQVNYSLPPQDLHLPLASLVSINTDNGHLFALRSLDYEALQ
 AFDFRVGATDRGSPALSSEALVRVLVLDANDNSPFVLYPLQNGSAPCTELVPRAAE
 PGYLVTKVVAVDGD SGQNA WLSYQLLKATEPGLFGVWAHNGEVRTARLLSERDAA
 KHRLVVLVKDNGEPPRSATATLQVLLVDGFSQPYLPLPE AAPAQQAQADSLTVYLVV
 ALASVSSLFLFSVLLFVAVRLCRRSRAASVGSCSVKGPFPGLVDVSGTGTLSQSY
 Q YEVC LTGGSETNEFKFLKPVIPNIQAKGLGKNSEENSTFRNSFGFNF

Applications Antibody Production; Functional Study; Compound Screening

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION

Gene Name PCDHB11 protocadherin beta 11 [Homo sapiens]

Official Symbol PCDHB11

Synonyms PCDHB11; protocadherin beta 11; protocadherin beta-11; cadherin ME2; ME2; PCDH BETA11; PCDH-beta-11; PCDH-BETA11; MGC138337; MGC142171

Gene ID 56125

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mRNA Refseq	NM_018931
Protein Refseq	NP_061754
MIM	606337
UniProt ID	Q9Y5F2
Chromosome Location	5q31
Function	calcium ion binding

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