



LD Biopharma, Inc.
9924 Mesa Rim Road Suite B
San Diego, CA 92121
Tel: 858-876-8266
<http://www.ldbiopharma.com>

- PRODUCT DATA SHEET -

Name of Product: Recombinant Human PCDH17 Protein
Catalog Number: hRP-1112
Manufacturer: LD Biopharma, Inc.

Introduction

Human PCDH17 gene belongs to the protocadherin gene family, a subfamily of the cadherin superfamily. The encoded protein contains six extracellular cadherin domains, a transmembrane domain, and a cytoplasmic tail differing from those of the classical cadherins. The encoded protein may play a role in the establishment and function of specific cell-cell connections in the brain. Recent data indicated that PCDH17 also plays an important role as tumor suppressor in various gastric tumor developments.

Full-length mature human PCDH17 cDNA (18–707aa, derived from BC028165) was constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal. This protein is expressed in E.coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: PCDH17 (PCDH68; PCH69)
Accession Number: NP_001035519.1
Species: Human
Size: 50 µg / Vial
Composition: 1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Hu,X., et al. *Protocadherin 17 acts as a tumour suppressor inducing tumour cell apoptosis and autophagy, and is frequently methylated in gastric and colorectal cancers.* J. Pathol. 229 (1), 62-73 (2013)



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Yang, Y., et al., *PCDH17 gene promoter demethylation and cell cycle arrest by genistein in gastric cancer*. *Histol. Histopathol.* 27 (2), 217-224 (2012)

Vanhalst, K., et al., *delta-Protocadherins: a gene family expressed differentially in the mouse brain*. *Cell. Mol. Life Sci.* 62 (11), 1247-1259 (2005)

Applications

1. May be used for in vitro mediated neuronal cell differentiation regulation study with this protein as either coating matrix protein or soluble factor.
2. May be used as PCDH17 protein-protein interaction assay.
3. Potential diagnostic biomarker protein for gastric tumors.
4. As antigen for specific antibody production.

Quality Control

Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGHHHHHGNLYFQGGFFLKNLNYSVPEEQGAGTVIGNIGRDARLQPGLPPAE
RGGGGRSKSGSYRVLENSAPHLLDVDADSGLLYTKQRIDRESLCRHNAKCQLSLEVFANDKEIC
MIKVEIQDINDNAPSFSSDQIEMDISENAAPGTRFPLTSAHDPDAGENGLRITYLLTRDDHGLFG
LDVKSRGDGTFPELVIQKALDREQQNHHTLVLTALDGGEPPRSATVQINVKVIDSNDNSPVFE
APSYLVELPENAPLGTVIDLNATDADEGPNGEVLYSFSSYVPDRVRELF SIDPKTGLIRVKGN
LDYEENGMLEIDVQARDLGNPIPAHCKVTVKLIDRNDNAPSIGFVSVRQGALSEAAPPGTVIA
LVRVTDRDSGKNGQLQCRVLGGGGTGGGGGLGGPSSVPFKLEENYDNFYTVVTDRLDRETQD
EYNVTIVARDGGSPPLNSTKSFAIKILDENDNPPRF TKGLYVLQVHENNIPGEYLGSVLAQDPD
LGQNGTVSYSILP SHIGDVSITYYVSVNPTNGAIYALRSFNFEQTKAFEFKVLAKDSGAPAHLE
SNATVRVTVLVDVNDNAPVIVLPTLQNDTAE LQVPRNAGLGYLVSTVRALDSDFGESGRLTYEIV
DGNDHLFEIDPSSGEIRTLHPFWEDVTPVVELVVKVTDHGKPTLSAVAKLIIRSVSGSLPEGV
PRVNGEQHHWDMSLP