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Recombinant human N-Cadherin/CDH2 protein

Catalog Number: ATGP3634

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

160-724aa

UniProt No.

P19022

NCBI Accession No.

NP 001783

Alternative Names

Cadherin-2 isoform 1, CDH2, CD325, CDHN, CDw325, NCAD, Neural cadherin

PRODUCT SPECIFICATION

Molecular Weight

62.9 kDa (574aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CDH2, also known as cadherin-2 isoform 1, is a transmembrane, homophilic glycoprotein belonging to the calcium-dependent cell adhesion molecule family. It plays a role in neurons and later was found to also play a role in cardiac muscle and in cancer metastasis. Its loss promotes tumorigenesis by releasing membrane-bound B-catenin, hence stimulating Wnt signaling. It seems to be involved in tumor development, but this finding is



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limited in adrenocortical tumors (ACTs). Recombinant human CDH2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

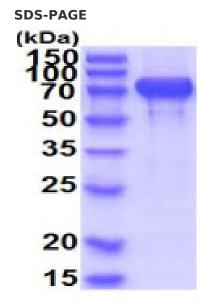
Amino acid Sequence

ADPDWVIPPI NLPENSRGPF PQELVRIRSD RDKNLSLRYS VTGPGADQPP TGIFIINPIS GQLSVTKPLD REQIARFHLR AHAVDINGNQ VENPIDIVIN VIDMNDNRPE FLHQVWNGTV PEGSKPGTYV MTVTAIDADD PNALNGMLRY RIVSQAPSTP SPNMFTINNE TGDIITVAAG LDREKVQQYT LIIQATDMEG NPTYGLSNTA TAVITVTDVN DNPPEFTAMT FYGEVPENRV DIIVANLTVT DKDQPHTPAW NAVYRISGGD PTGRFAIQTD PNSNDGLVTV VKPIDFETNR MFVLTVAAEN QVPLAKGIQH PPQSTATVSV TVIDVNENPY FAPNPKIIRQ EEGLHAGTML TTFTAQDPDR YMQQNIRYTK LSDPANWLKI DPVNGQITTI AVLDRESPNV KNNIYNATFL ASDNGIPPMS GTGTLQIYLL DINDNAPQVL PQEAETCETP DPNSINITAL DYDIDPNAGP FAFDLPLSPV TIKRNWTITR LNGDFAQLNL KIKFLEAGIY EVPIIITDSG NPPKSNISIL RVKVCQCDSN GDCTDVDRIV GAGLGTGAHH HHHH

General References

Buxton RS., et al. (1992) Semin Cell Biol. 3:157-167. Rubin B., et al. (2016) Tumour Biol. 37:13545-13555.

DATA



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)

