CTNND2 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	CTNND2, Blocking Peptide
Full Product Name	CTNND2 Antibody (C-term) Blocking peptide
Product Gene Name	CTNND2 blocking peptide
Product Synonym Gene Name	NPRAP
Product Synonym Names	Catenin delta-2; Delta-catenin; GT24; Neural plakophilin-related ARM-repeat protein; NPRAP; Neurojungin; CTNND2; NPRAP
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	CTNND2 peptide (MBS9219218) is used for blocking the activity of CTNND2 antibody (MBS9212917)
Molecular Weight	126,529 Da
OMIM	604275
Cellular Location	Nucleus. Cell junction, adherens junction. Perikaryon. Note: Colocalizes with CDK5 in the cell body of neuronal cells
Tissue Location	Predominantly expressed in brain; accumulates in cortical neurons (at protein level)
Related Product Information for CTNND2 blocking peptide	Functions as a transcriptional activator when bound to ZBTB33 (By similarity). May be involved in neuronal cell adhesion and tissue morphogenesis and integrity by regulating adhesion molecules.
Other Notes	Small volumes of CTNND2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CTNND2 purchase	MBS9219218 is a blocking peptide targeting CTNND2. Also known as CTNND2 Antibody (C-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTNND2. It may not necessarily be applicable to this product.

NCBI GI #	84028193
NCBI GeneID	1501
NCBI Accession #	Q9UQB3.3
UniProt Primary Accession #	Q9UQB3
UniProt Secondary Accession #	O00379; O15390; O43206; O43840; Q13589; Q9UM66; Q9UPM3; B0FTZ7
UniProt Related Accession #	Q9UQB3
NCBI Official Full Name	Catenin delta-2
NCBI Official Synonym Full Names	catenin delta 2
NCBI Official Symbol	CTNND2
NCBI Official Synonym Symbols	GT24; NPRAP

UniProt Protein Name	Catenin delta-2
UniProt Synonym Protein Names	Delta-catenin; GT24; Neural plakophilin-related ARM-repeat protein; NPRAP; Neurojungin
Protein Family	Catenin
UniProt Gene Name	CTNND2
UniProt Synonym Gene Names	NPRAP; NPRAP
UniProt Entry Name	CTND2_HUMAN
NCBI Protein Information	catenin delta-2
NCBI Summary for CTNND2	This gene encodes an adhesive junction associated protein of the armadillo/beta-catenin superfamily and is implicated in brain and eye development and cancer formation. The protein encoded by this gene promotes the disruption of E-cadherin based adherens junction to favor cell spreading upon stimulation by hepatocyte growth factor. This gene is overexpressed in prostate adenocarcinomas and is associated with decreased expression of tumor suppressor E-cadherin in this tissue. This gene resides in a region of the short arm of chromosome 5 that is deleted in Cri du Chat syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2013]
UniProt Comments for CTNND2	CTNND2: Functions as a transcriptional activator when bound to ZBTB33. May be involved in neuronal cell adhesion and tissue morphogenesis and integrity by regulating adhesion molecules. Binds to E-cadherin at a juxtamembrane site within the cytoplasmic domain. Interacts with PDZD2. Interacts with ZBTB33. Binds to PSEN1. Interacts with RGNEF. Interacts (via the extreme C-terminus) with FRMPD2 (via the PDZ 2 domain). Predominantly expressed in brain; accumulates in cortical neurons. Belongs to the beta-catenin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Actin-binding Chromosomal Location of Human Ortholog: 5p15.2 Cellular Component: cytoplasm; perikaryon Molecular Function: beta-catenin binding; protein binding Biological Process: cell adhesion; signal transduction; synapse organization and biogenesis Disease: Cri-du-chat Syndrome
Research Articles on CTNND2	**1.** the effect of CTNND2 polymorphisms on normal variability and identified a polymorphism (rs2561622) with significant effect on phonological ability and white matter volume in the left frontal lobe, was investigated.
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