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CTNND2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12548b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9UQB3
Other Accession	O35927, NP_001323.1
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20931
Calculated MW	132656
Antigen Region	1131-1159

Additional Information

Gene ID	1501
Other Names	Catenin delta-2, Delta-catenin, GT24, Neural plakophilin-related ARM-repeat protein, NPRAP, Neurojungin, CTNND2, NPRAP
Target/Specificity	This CTNND2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1131-1159 amino acids from the C-terminal region of human CTNND2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CTNND2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CTNND2
Synonyms	NPRAP

Function	Has a critical role in neuronal development, particularly in the formation and/or maintenance of dendritic spines and synapses (PubMed:25807484). Involved in the regulation of Wnt signaling (PubMed:25807484). It probably acts on beta-catenin turnover, facilitating beta-catenin interaction with GSK3B, phosphorylation, ubiquitination and degradation (By similarity). 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.
Cellular Location	Nucleus {ECO:0000250|UniProtKB:O35927}. Cell junction, adherens junction {ECO:0000250|UniProtKB:O35927}. Cell projection, dendrite {ECO:0000250|UniProtKB:O35116}. Perikaryon
Tissue Location	Expressed in brain; highest expression is observed in fetal brain (PubMed:25807484).

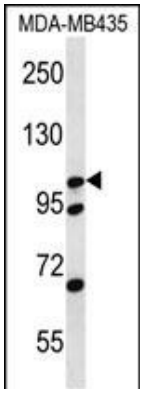
Background

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.

References

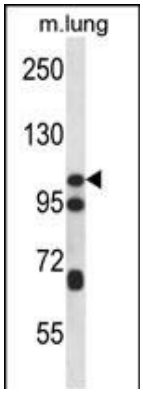
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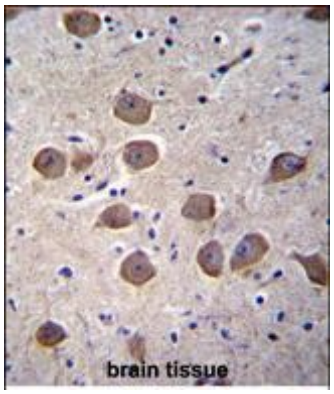
Images



CTNND2 Antibody (C-term) (Cat. #AP12548b) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the CTNND2 antibody detected the CTNND2 protein (arrow).

CTNND2 Antibody (C-term) (Cat. #AP12548b) western blot analysis in mouse lung tissue lysates (35ug/lane).This demonstrates the CTNND2 antibody detected the CTNND2 protein (arrow).





CTNND2 Antibody (C-term) (Cat. #AP12548b)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CTNND2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.