

# CTNND2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12548b

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">Q9UQB3</a>
<b>Other Accession</b>	<a href="#">Q35927</a> , <a href="#">NP_001323.1</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB20931
<b>Calculated MW</b>	132656
<b>Antigen Region</b>	1131-1159

## Additional Information

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<b>Gene ID</b>	1501
<b>Other Names</b>	Catenin delta-2, Delta-catenin, GT24, Neural plakophilin-related ARM-repeat protein, NPRAP, Neurojungin, CTNND2, NPRAP
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	CTNND2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CTNND2
<b>Synonyms</b>	NPRAP
<b>Function</b>	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](#)).

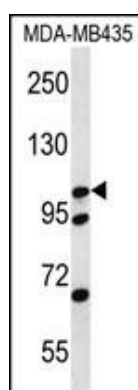
## Background

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

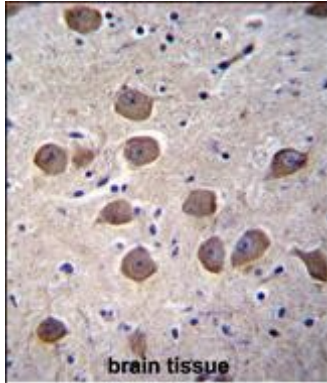
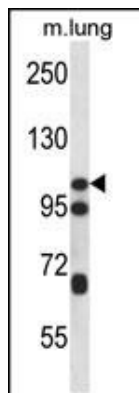
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Zhang, J., et al. Exp. Cell Res. 316(6):1070-1081(2010)  
Yang, I., et al. Mol. Cells 29(3):233-237(2010)  
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## Images



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'.