

CTNND2 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12548b**Specification**

CTNND2 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [O9UQB3](#)**CTNND2 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 1501**Other Names**

Catenin delta-2, Delta-catenin, GT24, Neural plakophilin-related ARM-repeat protein, NPRAP, Neurojungin, CTNND2, NPRAP

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CTNND2 Antibody (C-term) Blocking peptide - 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).

CTNND2 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CTNND2 Antibody (C-term) Blocking peptide - Images

CTNND2 Antibody (C-term) Blocking peptide - 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.

CTNND2 Antibody (C-term) Blocking peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Zhang, J., et al. Exp. Cell Res. 316(6):1070-1081(2010) Yang, L., et al. Mol. Cells 29(3):233-237(2010) Stenzel, N., et al. J. Cell. Sci. 122 (PT 18), 3374-3384 (2009) :Martins-de-Souza, D., et al. Eur Arch Psychiatry Clin Neurosci 259(3):151-163(2009)