

delta 2 Catenin Recombinant Rabbit mAb

Catalog # AP96665

Product Information

Application	WB
Primary Accession	Q35927
Other Accession	Q35927
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	135000
Physical State	Liquid
Immunogen	A synthesized peptide derived from mouse delta 2 Catenin
Epitope Specificity	10-74
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Belongs to the beta-catenin family. Contains 9 ARM repeats.
SUBUNIT	Binds to E-cadherin at a juxtamembrane site within the cytoplasmic domain. Interacts with PDZD2. Interacts with ZBTB33 (By similarity). Binds to PSEN1. Interacts with ARHGEF28. Interacts (via the extreme C-terminus) with FRMPD2 (via the PDZ 2 domain).
Post-translational modifications	O-glycosylated. Phosphorylated upon DNA damage, probably by ATM or ATR.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Has a critical role in neuronal development, particularly in the formation and/or maintenance of dendritic spines and synapses. Involved in the regulation of canonical Wnt signaling.It probably acts on beta-catenin turnover, facilitating beta-catenin interaction with GSK3B, phosphorylation, ubiquitination and degradation.

Additional Information

Gene ID	18163
Other Names	GT24; NPRAP; CTND2_HUMAN; CTNND2; Delta-catenin; Neural plakophilin-related ARM-repeat protein (NPRAP); Neurojungin; CTND2_RAT; CTND2_MOUSE; Catnd2; catenin delta 2; catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein); catenin (cadherin-associated protein), delta 2; neural plakophilin-related arm-repeat protein
Dilution	WB=1:500-2000,ICC/IF=1:50-200,Flow-Cyt=1:50-100
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Ctnnd2
Synonyms	Catnd2, Nprap
Function	Has a critical role in neuronal development, particularly in the formation and/or maintenance of dendritic spines and synapses (PubMed: 17993462 , PubMed: 25807484). Involved in the regulation of canonical Wnt signaling (By similarity). It probably acts on beta- catenin turnover, facilitating beta-catenin interaction with GSK3B, phosphorylation, ubiquitination and degradation (PubMed: 20623542). May be involved in neuronal cell adhesion and tissue morphogenesis and integrity by regulating adhesion molecules. Functions as a transcriptional activator when bound to ZBTB33 (PubMed: 15282317).
Cellular Location	Nucleus. Cell junction, adherens junction. Cell projection, dendrite {ECO:0000250 UniProtKB:O35116}. Perikaryon {ECO:0000250 UniProtKB:O35116}
Tissue Location	Expressed in neurons and glial cells. Isoform 2 was found to be the most predominant isoform in various brain regions Expressed at neuromuscular junctions.

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