

CTTNBL1 Antibody

Catalog # ASC11290

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q8WYA6
Other Accession	NP_110517 , 18644734
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	65173
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	CTTNBL1 antibody can be used for detection of CTTNBL1 by Western blot at 1 and 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.

Additional Information

Gene ID	56259
Other Names	Beta-catenin-like protein 1, Nuclear-associated protein, NAP, Testis development protein NYD-SP19, CTNNBL1, C20orf33
Target/Specificity	CTNNBL1; CTNNBL1 antibody is predicted to not cross-react with other catenin family members. At least four isoforms of CTNNBL1 are known to exist; this antibody will detect all but isoform b.
Reconstitution & Storage	CTTNBL1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	CTTNBL1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CTNNBL1
Synonyms	C20orf33
Function	Component of the PRP19-CDC5L complex that forms an integral part of the spliceosome and is required for activating pre-mRNA splicing. Participates in AID/AICDA-mediated somatic hypermutation (SHM) and class-switch recombination (CSR), 2 processes resulting in the production of high-affinity, mutated isotype-switched antibodies (PubMed: 32484799).

Cellular Location	[Isoform 1]: Nucleus.
Tissue Location	Widely expressed with highest levels in skeletal muscle, placenta, heart, spleen, testis and thyroid

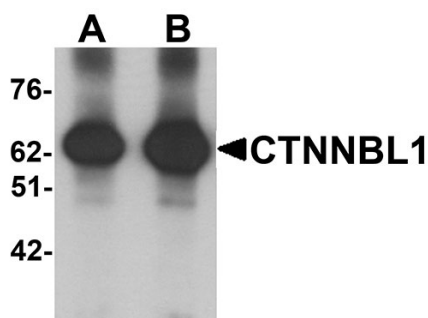
Background

CTNNBL1 Antibody: The Beta-catenin-like protein 1 (CTNNBL1) contains an acidic domain, a putative bipartite nuclear localization signal, a nuclear export signal, a leucine-isoleucine zipper, and phosphorylation motifs, as well as Armadillo/beta-catenin-like repeats. Transient expression of CTNNBL1 resulted in translocation to the nucleus and apoptosis, suggesting it may be involved in the apoptotic pathway. CTNNBL1 interacts with the Prp19 complex of the spliceosome and the Ig class switching enzyme activation-induced deaminase (AID) and had been suggested to play a role in antibody-diversification and class switching, but recent studies have shown CTNNBL1 to be dispensable for Ig class switch recombination. Other studies have identified CTNNBL1 as a novel gene for obesity.

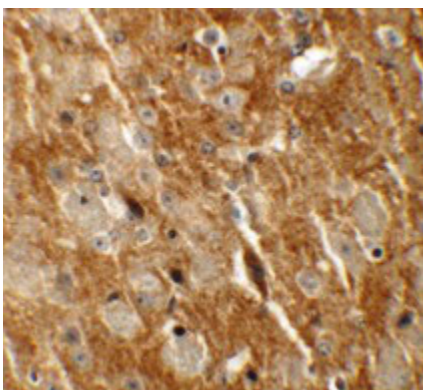
References

Jabbour L, Welter JF, Kollar, et al. Sequence, gene structure, and expression pattern of CTNNBL1, a minor-class intron-containing gene - evidence for a role in apoptosis. *Genomics* 2003; 81:292-303.
Conticello SG, Ganesh K, Xhu K, et al. Interaction between antibody-diversification enzyme AID and spliceosome-associated factor CTNNBL1. *Mol. Cell* 2008; 31:474-84.
Han L, Masani S, and Yu K. Cutting edge: CTNNBL1 is dispensable for Ig class switch recombination. *J. Immunol.* 2010; 185:1379-81.
Liu YJ, Liu XG, Wang L, et al. Genome-wide association scans identified CTNNBL1 as a novel gene for obesity. *Hum. Mol. Genet.* 2008; 17:1803-13.

Images

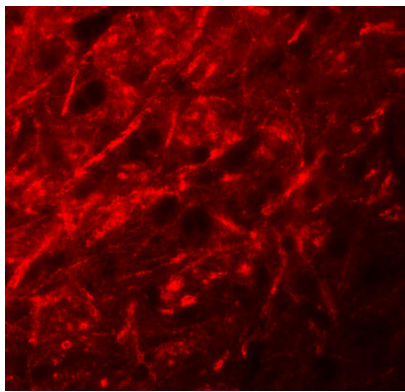


Western blot analysis of CTNNBL1 in human brain tissue lysate with CTNNBL1 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of CTNNBL1 in mouse brain tissue with CTNNBL1 antibody at 5 µg/mL.

Immunofluorescence of CTNNBL1 in mouse brain tissue with CTNNBL1 antibody at 20 µg/mL.



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