10320 Camino Santa Fe, Suite G
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CTNNBL1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1981a

Specification

CTNNBL1 Antibody - Product Information

Application	**WB, FC, E**
Primary Accession	Q8WYA6
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a**
Calculated MW	**65.2kDa KDa**

Description
The protein encoded by this gene is a component of the pre-mRNA-processing factor 19-cell division cycle 5-like (PRP19-CDC5L) protein complex, which activates pre-mRNA splicing and is an integral part of the spliceosome. The encoded protein is also a nuclear localization sequence binding protein, and binds to activation-induced deaminase and is important for antibody diversification. This gene may also be associated with the development of obesity. Alternative splicing results in multiple transcript variants. A pseudogene of this gene has been defined on the X chromosome.

Immunogen
Purified recombinant fragment of human CTNNBL1 (AA: 390-557) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide.

CTNNBL1 Antibody - Additional Information

Gene ID 56259

Other Names
Beta-catenin-like protein 1, Nuclear-associated protein, NAP, Testis development protein NYD-SP19, CTNNBL1, C20orf33

Dilution
WB~~1/500 - 1/2000
FC~~1/200 - 1/400
E~~1/10000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CTNNBL1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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CTNNBL1 Antibody - 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).

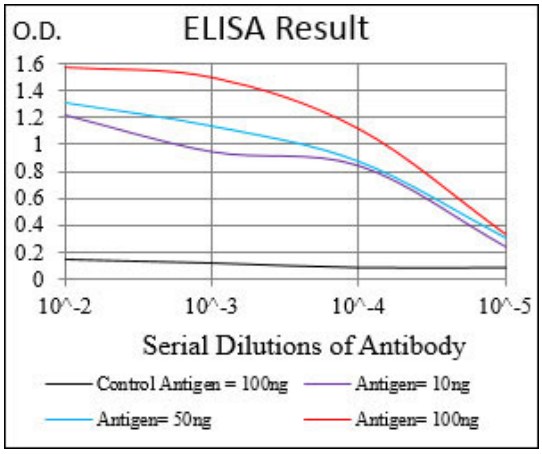
Cellular Location
[Isoform 1]: Nucleus.

Tissue Location
Widely expressed with highest levels in skeletal muscle, placenta, heart, spleen, testis and thyroid

CTNNBL1 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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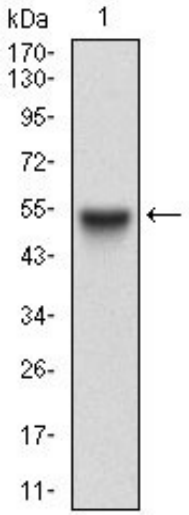

Figure 1: Western blot analysis using CTNNBL1 mAb against human CTNNBL1 (AA: 390-557) recombinant protein. (Expected MW is 45.8 kDa)

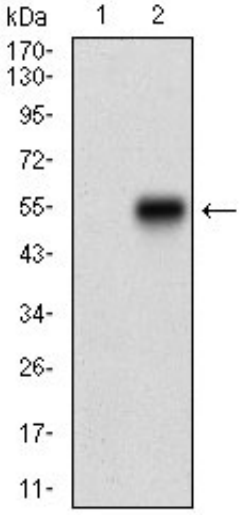

Figure 2: Western blot analysis using CTNNBL1 mAb against HEK293 (1) and CTNNBL1 (AA: 390-557)-hIgGFc transfected HEK293 (2) cell lysate.

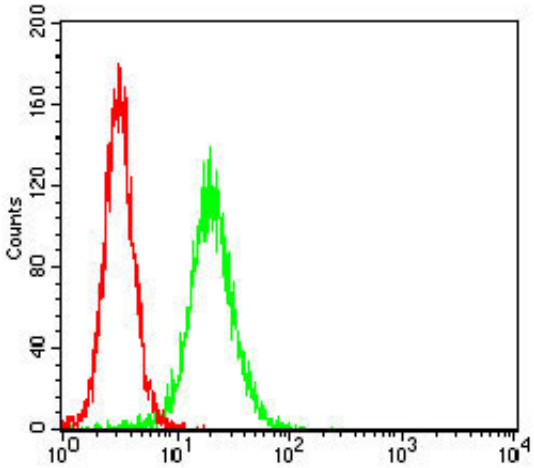

Figure 3: Flow cytometric analysis of Hela cells using CTNNBL1 mouse mAb (green) and negative control (red).

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CTNNBL1 Antibody - Background

There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The intestinal alkaline phosphatase gene encodes a digestive brush-border enzyme. This enzyme is upregulated during small intestinal epithelial cell differentiation.

CTNNBL1 Antibody - References

1. Mol Psychiatry. 2013 Feb;18(2):255-63.2. BMC Med Genet. 2009 Feb 26;10:17.