

CTNNBL1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1938a**Specification****CTNNBL1 Antibody - Product Information**

Application	E, WB, IF, FC, IHC
Primary Accession	Q8WYA6
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
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

E~~1/10000
WB~~1/500 - 1/2000
IF~~1/200 - 1/1000
FC~~1/200 - 1/400
IHC~~1/200 - 1/1000

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.

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.

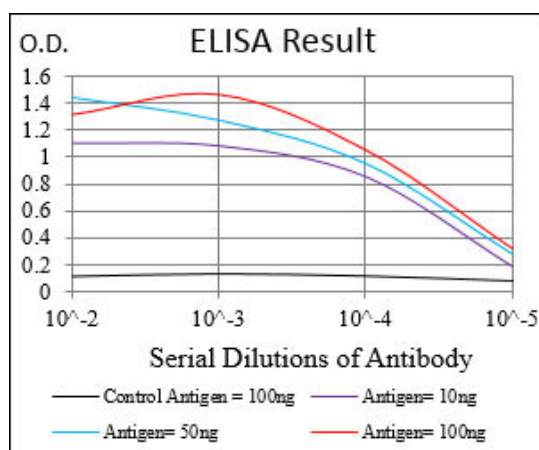
Tissue Location

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 Cytometry](#)
- [Cell Culture](#)



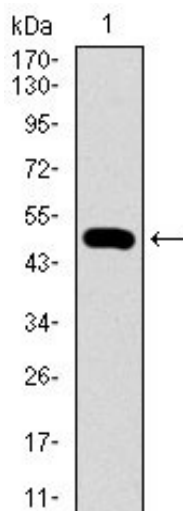


Figure 1: Western blot analysis using CTNNBL1 mAb against human CTNNBL1 (AA: 390-557) recombinant protein. (Expected MW is 45.8 kDa)

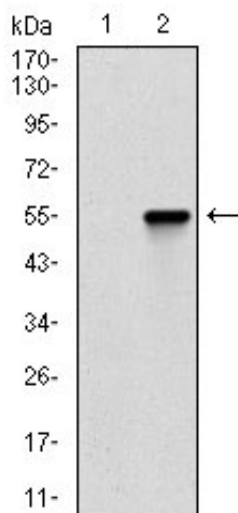


Figure 2: Western blot analysis using CTNNBL1 mAb against HEK293 (1) and CTNNBL1 (AA: 390-557)-hlgGfC transfected HEK293 (2) cell lysate.

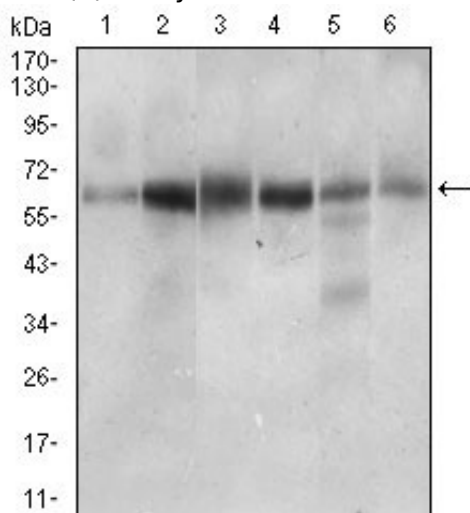


Figure 3: Western blot analysis using CTNNBL1 mouse mAb against Hela (1), Jurkat (2), HEK293 (3), A431 (4), HepG2 (5), RAJI (6) cell lysate.

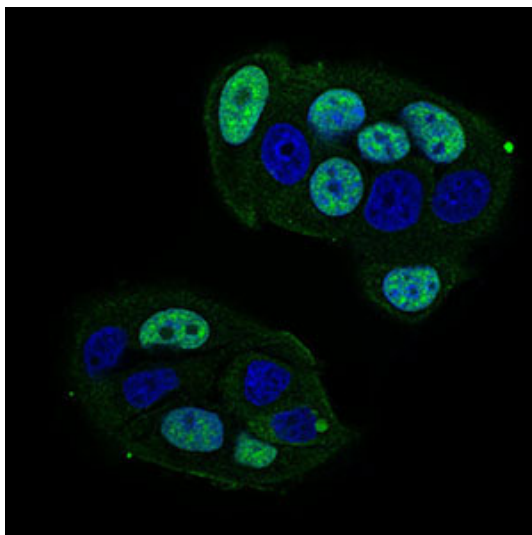


Figure 4: Immunofluorescence analysis of MCF-7 cells using CTNNB1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Secondary antibody from Fisher (Cat#: 35503)

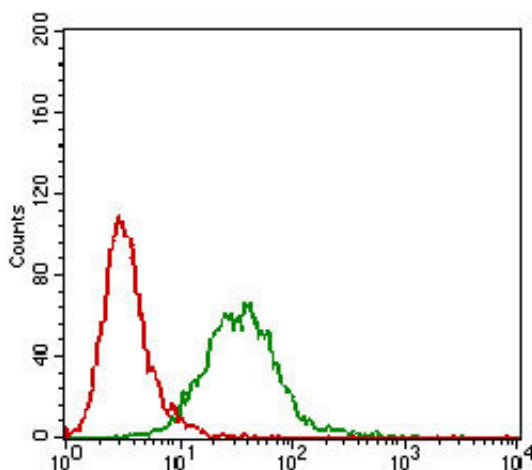


Figure 5: Flow cytometric analysis of Hela cells using CTNNB1 mouse mAb (green) and negative control (red).

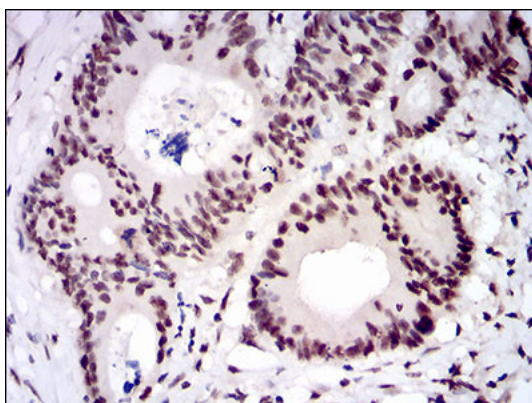


Figure 6: Immunohistochemical analysis of paraffin-embedded colon cancer tissues using CTNNB1 mouse mAb with DAB staining.

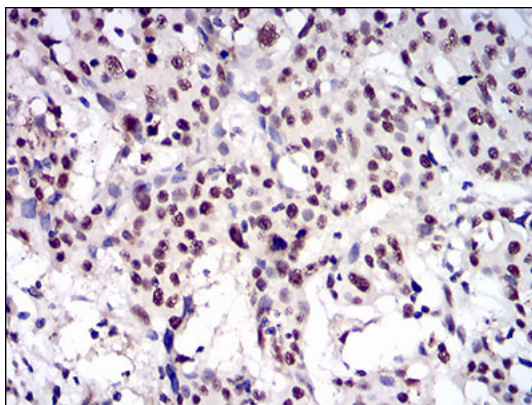


Figure 7: Immunohistochemical analysis of paraffin-embedded esophageal cancer tissues using CTNNB1 mouse mAb with DAB staining.

CTNNB1 Antibody - Background

This gene belongs to the forkhead family of transcription factors which is characterized by a distinct DNA-binding forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in the development of mesenchymal tissues. ; ;

CTNNB1 Antibody - References

1. J Biol Chem. 2011 May 13;286(19):17091-102.2. Mol Cell. 2008 Aug 22;31(4):474-84.