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CTNNBL1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1938a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	Q8WYA6
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1E4F5
Isotype	IgG1
Calculated MW	65173
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.

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 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A 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.

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

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. ; ;

References

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

Images

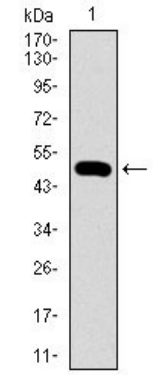


Figure 1: Western blot analysis using CTNNBL1 mAb against human CTNNBL1 (AA: 390-557) recombinant protein. (Expected MW is 45.8 kDa)

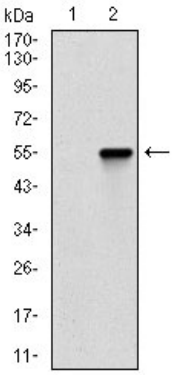
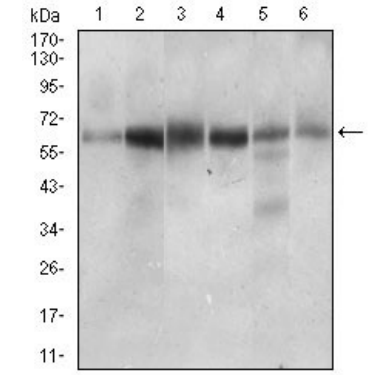


Figure 2: Western blot analysis using CTNNBL1 mAb against HEK293 (1) and CTNNBL1 (AA: 390-557)-hIgGFc transfected HEK293 (2) cell lysate.

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



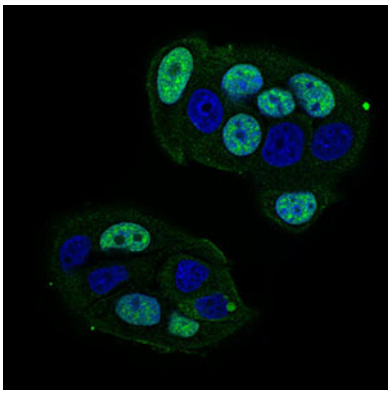


Figure 4: Immunofluorescence analysis of MCF-7 cells using CTNNBL1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Secondary antibody from Fisher (Cat#: 35503)

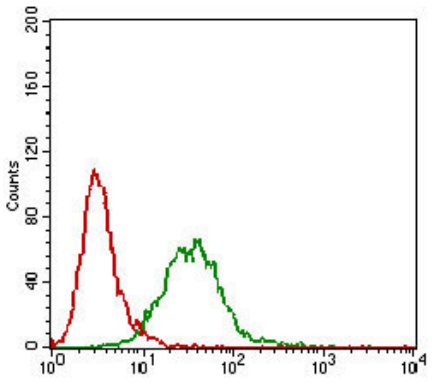


Figure 5: Flow cytometric analysis of Hela cells using CTNNBL1 mouse mAb (green) and negative control (red).

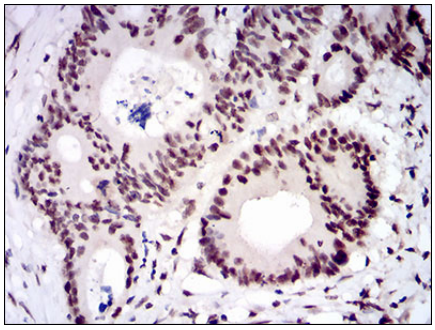


Figure 6: Immunohistochemical analysis of paraffin-embedded colon cancer tissues using CTNNBL1 mouse mAb with DAB staining.