

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for UM500015

beta Catenin (CTNNB1) Mouse Monoclonal Antibody [Clone ID: UMAB15]

Product data:

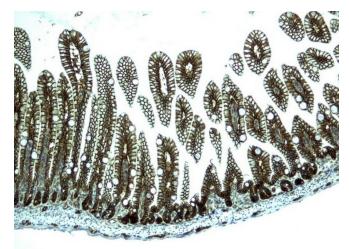
Product Type:	Primary Antibodies
Clone Name:	UMAB15
Applications:	10k-ChIP, FC, IF, IHC, WB
Recommended Dilution:	WB 1:500, IHC 1:100, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human CTNNB1 (NP_001895) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5~1.0 mg/ml (Lot Dependent)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	85.3 kDa
Gene Name:	catenin beta 1
Database Link:	<u>NP 001895</u> Entrez Gene 12387 MouseEntrez Gene 84353 RatEntrez Gene 574265 MonkeyEntrez Gene 1499 Human P35222



	eta Catenin (CTNNB1) Mouse Monocional Antibody [Cione ID: UMAB15] – UM500015
Background:	The protein encoded by this gene is part of a complex of proteins that constitute adherens junctions (AJs). AJs are necessary for the creation and maintenance of epithelial cell layers by regulating cell growth and adhesion between cells. The encoded protein also anchors the actin cytoskeleton and may be responsible for transmitting the contact inhibition signal that causes cells to stop dividing once the epithelial sheet is complete. Finally, this protein binds to the product of the APC gene, which is mutated in adenomatous polyposis of the colon. Mutations in this gene are a cause of colorectal cancer (CRC), pilomatrixoma (PTR), medulloblastoma (MDB), and ovarian cancer. Three transcript variants encoding the same protein have been found for this gene.
Synonyms:	armadillo; CTNNB; MRD19
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
Protein Pathways:	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Basal cell carcinoma, Colorectal cancer, Endometrial cancer, Focal adhesion, Leukocyte transendothelial migration, Melanogenesis, Pathogenic Escherichia coli infection, Pathways in cancer, Prostate cancer, Thyroid cancer, Tight junction, Wnt signaling pathway

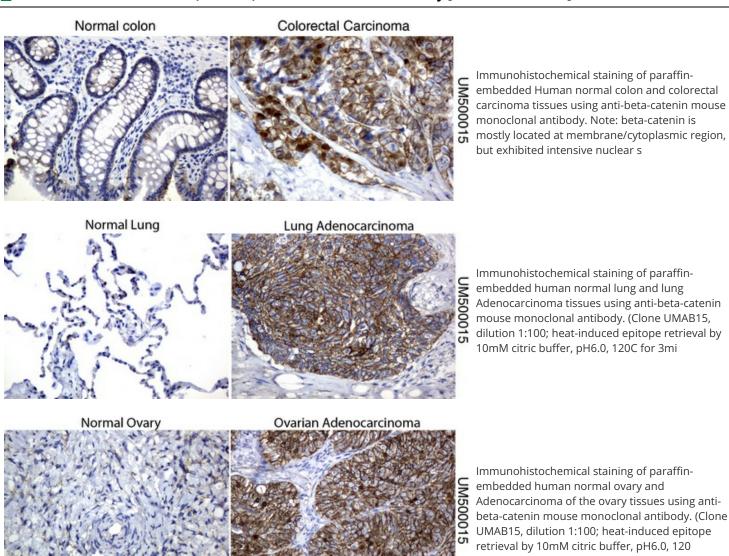
ta Catopin (CTNNR1) Mouse Menedlenal Antibody [Clene ID: 11MAR15]

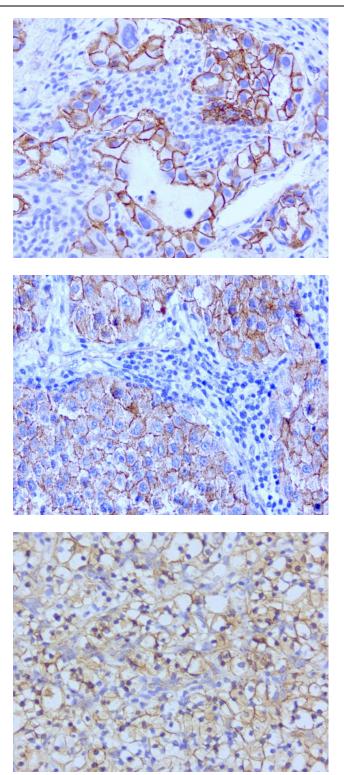
Product images:



Immunohistochemical staining of paraffinembedded Mouse colon tissue using anti-betacatenin mouse monoclonal antibody. (Clone UMAB15, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

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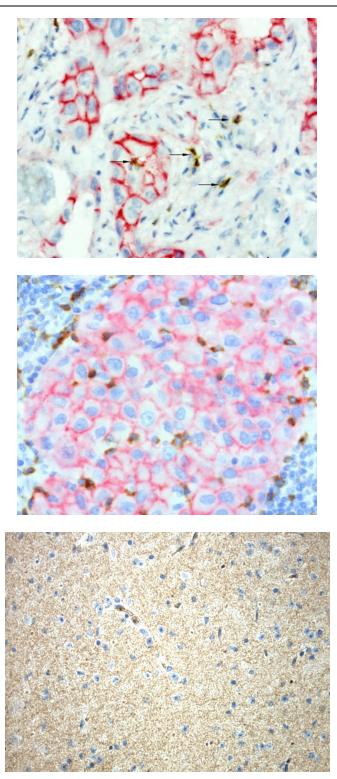




Immunohistochemical staining of paraffinembedded human lung cancer with mouse anti-Beta Catenin clone UMAB15 1:200 using HIER citrate pressure chamber. Tumor cells show positive membrane staining.

Immunohistochemical staining of paraffinembedded human melanoma metastisis to lymph node with mouse anti-Beta Catenin clone UMAB15 1:200 using HIER citrate pressure chamber. Tumor cells show positive membrane and cytoplasmic staining.

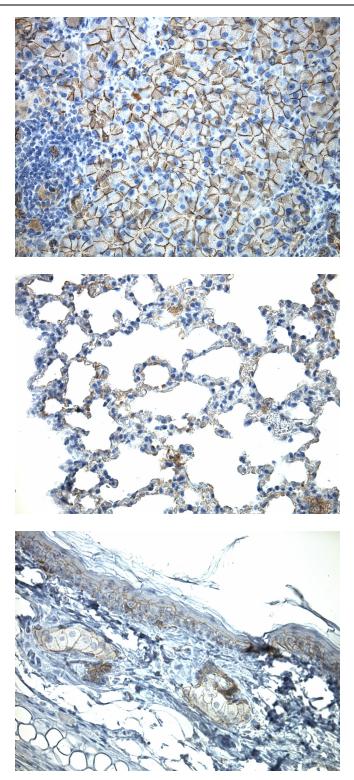
Immunohistochemical staining of paraffinembedded human renal cell carcinoma with mouse anti-Beta Catenin clone UMAB15 1:200 using HIER citrate pressure chamber. Tumor cells show positive membrane staining.



Sequential double staining of paraffin human melanoma using bCatenin UM500015 (red) and PD1 [UM800091] (brown). Both abs at 1:800 dilution of 1mg/mL. Anti-PD1: heat-induced epitope retrieval with Accel; anti-bCatenin: citrate pH6.0. Image shows the tumor cells are strongly positve for b-catenin (red) and negative for PD1. The arrows point to the activated T cells (brown) show strong membranous and cytoplasmic staining of PD1 and no staining with bCatenin.

Sequential double staining of paraffin human melanoma using bCatenin UM500015 (red) and PD1 [UM800091] (brown). Both abs at 1:800 dilution of 1mg/mL. Anti-PD1: heat-induced epitope retrieval with Accel; anti-bCatenin: citrate pH6.0. The image of shows the tumor cells are strongly positve for beta-catenin (red) are negative for PD-1. The activated TCells (brown) show strong membranous and cytoplasmic staining for PD-1 and no staining with Beta Catenin.

Immunohistochemical staining of paraffinembedded mouse brain tissue using anti-CTNNB1 clone UMAB15 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, UM500015 (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.

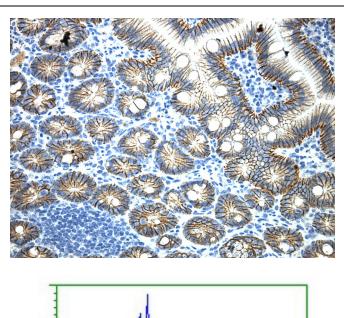


Immunohistochemical staining of paraffinembedded mouse kidney tissue using anti-CTNNB1 clone UMAB15 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, UM500015 (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.

Immunohistochemical staining of paraffinembedded mouse lung tissue using anti-CTNNB1 clone UMAB15 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, UM500015 (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.

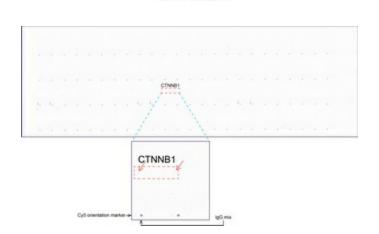
Immunohistochemical staining of paraffinembedded mouse skin tissue using anti-CTNNB1 clone UMAB15 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, UM500015 (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.

Events



Immunohistochemical staining of paraffinembedded mouse small intestine tissue using anti-CTNNB1 clone UMAB15 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, UM500015 (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.

Flow cytometric Analysis of Hela cells, using anti-CTNNB1 antibody (UM500015), (Red), compared to a nonspecific negative control antibody, (Blue).

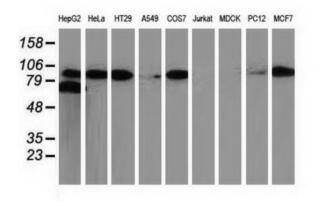


CTNNB1

OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-betacatenin mouse monoclonal antibody (Clone UMAB15). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification. These data show that UltraMAB anti-beta-catenin (Clone UMAB15) very specifically recognizes betacatenin antigen on OriGene protein microarray chip.

LiCI

LiCI



Mock

Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-CTNNB1 monoclonal antibody.

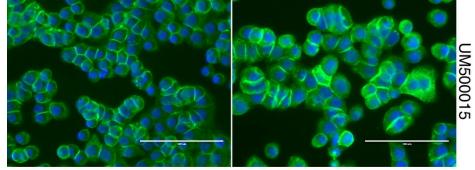
Western analysis of HEK293T cells without treatment or treated with 30mM LiCl for 16 hours, using anti-beta-catenin antibody (clone UMAB15). Anti-HSP90 ([TA500494]) was used as internal loading control.

Mock

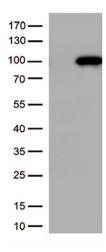
UM500015

HSP90

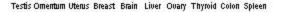
TA500494

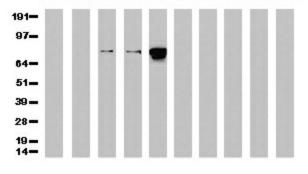


Immunofluorescent image of HT-29 cells without treatment (left) or treated with 30mM LiCl (right), using anti-beta-catenin antibody (Clone UMAB15). Nuclei were labeled by Hoechst 33242 (blue).

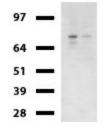


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CTNNB1 ([RC208947], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CTNNB1 (1:500).



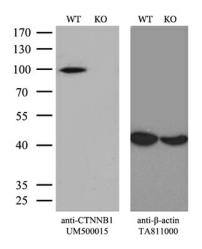


Western Blot analysis of 10 different human tissue lysates (10ug) by using Anti-β-Catenin monoclonal antibody (Clone UMAB15, 1:500)



Western blot of mouse tissue lysates (20ug) from Uterus and Ovary. Primary antibody diluation: 1:500. Secondary antibody dilution: Mouse TrueBlot® Ultra (1:1000).

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Equivalent amounts of cell lysates (10 ug per lane) of wild-type Hela cells (WT, Cat# LC810HELA) and CTNNB1-Knockout Hela cells (KO, Cat# [LC810056]) were separated by SDS-PAGE and immunoblotted with anti-CTNNB1 monoclonal antibody UM500015. Then the blotted membrane was stripped and reprobed with antib-actin antibody ([TA811000]) as a loading control (1:500).

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