
Product Name: KO-Validated Catenin Beta 1 Mouse Monoclonal Antibody**Catalog #: KVA00063**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:50-1:100
Molecular Weight	Calculated MW: 85.5kDa

Antigen Information

Gene Name	CTNNB1 CTNNB1; Catenin Beta 1; Beta-Catenin; Armadillo; CTNNB; Catenin (Cadherin-Associated
Alternative Names	Protein), Beta 1, 88kDa; Catenin Beta-1; Catenin (Cadherin-Associated Protein), Beta 1 (88kD); Catenin (Cadherin-Associated Protein), Beta 1; NEDSDV; MRD19; EVR7
Gene ID	1499.0
SwissProt ID	P35222
Immunogen	A synthesized peptide derived from human Beta-catenin

Background

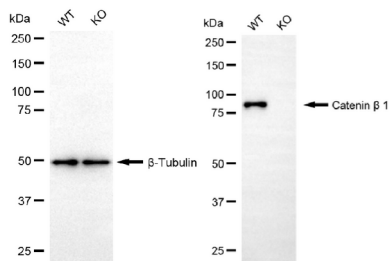
The protein encoded by this gene is part of a complex of proteins that constitute adherens junctions (AJs). AJs are necessary for the creation and maintenance of epithelial cell layers by regulating cell growth and adhesion between cells. The encoded

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), pilomatixoma (PTR), medulloblastoma (MDB), and ovarian cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2016]

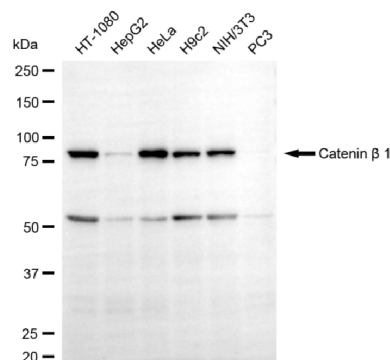
Research Area

Signal Transduction, Neuroscience, Stem Cells, Cancer, Cardiovascular

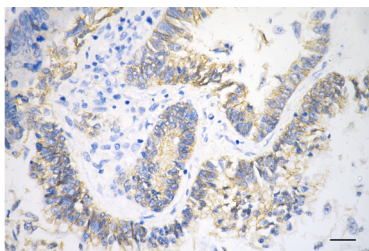
Image Data



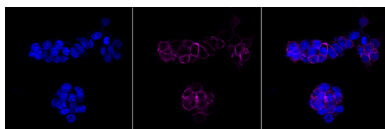
Western blotting analysis using catenin beta 1 antibody (KVA00063). Catenin beta 1 expression in wild-type (WT) and catenin beta 1 (CTNNB1) knockout (KO) 293T cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with catenin beta 1 antibody (KVA00063, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



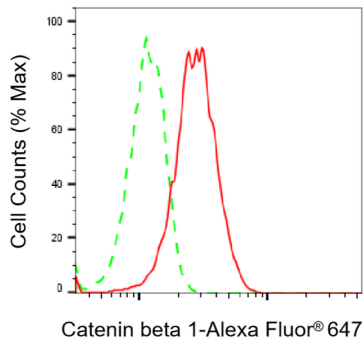
Western blotting analysis using catenin beta 1 antibody (KVA00063). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with catenin beta 1 antibody (KVA00063, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using catenin beta 1 antibody (KVA00063, 1:100). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HAP-1 cells with Catenin beta 1 antibody (KVA00063, 1:1,000). Nuclei were stained blue with DAPI; Catenin beta 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and Smart Gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Catenin beta 1 expression in HAP-1 cells using Catenin beta 1 antibody (KVA00063, 1:2,000). Green, isotype control; red, Catenin beta 1.