Anti-beta catenin Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

Catalog # M900009

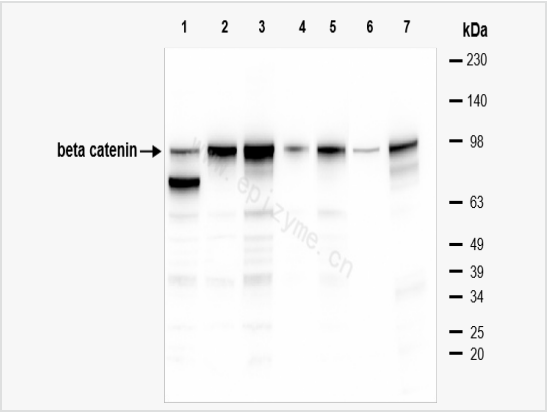
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse (Cell), Rat
Dilution	WB 1:1,000~1:5,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Mouse
Clonality	Monoclonal
Clone No.	79R45A03
Isotype	IgG
Label	Unconjugated
Immunogen	This Beta catenin antibody is generated from mice immunized with a SHC (Shrimp Hemocyanin) conjugated synthetic peptide between 736-749 amino acids from homo sapiens (Human).
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-beta catenin Mouse mAb [79R45A03] is for research use only and not for use in diagnostic or therapeutic procedures.

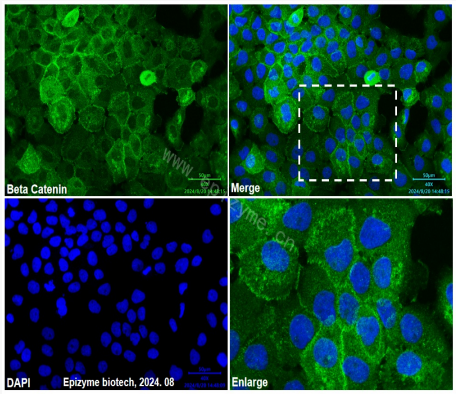
Protein Information

Synonyms	b-catenin, Beta catenin, Beta-catenin, Cadherin associated protein, Catenin (cadherin associated protein), beta 1, 88kDa, Catenin beta 1, Catenin beta-1, CATNB, CHBCAT, CTNB1_HUMAN, CTNNB, CTNNB1, DKFZp686D02253, FLJ25606, FLJ37923, OTTHUMP00000162082, OTTHUMP00000165222, OTTHUMP00000165223, OTTHUMP00000209288, OTTHUMP00000209289.
Calculated MW	Calculated MW: 85 kDa; Observed MW: 85 kDa
Uniprot ID	P35222, P26233, Q9WU82, Q02248, Q0VCX4, P18824
Gene ID	1499
Background	The protein encoded by this gene is part of a complex ofproteins that constitute adherens junctions (AJs). AJs arenecessary for the creation and maintenance of epithelial celllayers by regulating cell growth and adhesion between cells. Theencoded protein also anchors the actin cytoskeleton and may beresponsible for transmitting the contact inhibition signal thatcauses cells to stop dividing once the epithelial sheet iscomplete. Finally, this protein binds to the product of the APCgene, 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 foundfor this gene.
Cellular Location	Cytoplasm. Nucleus. Cytoplasm > cytoskeleton. Cell junction > adherens junction. Cell junction. Cell membrane. Cytoplasmic when it is unstabilized (high level of phosphorylation) or bound to CDH1. Translocates to the nucleus when it is stabilized (low level of phosphorylation). Interaction with GLIS2 and MUC1 promotes nuclear translocation. Interaction with EMD inhibits nuclear localization.

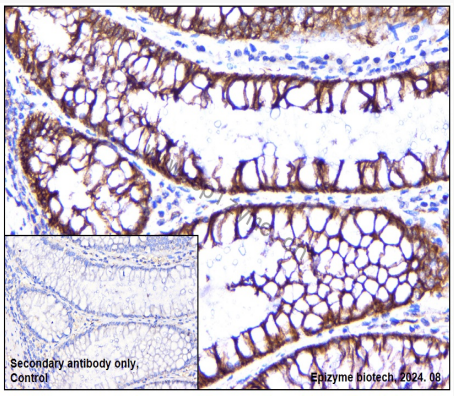
Validation Images



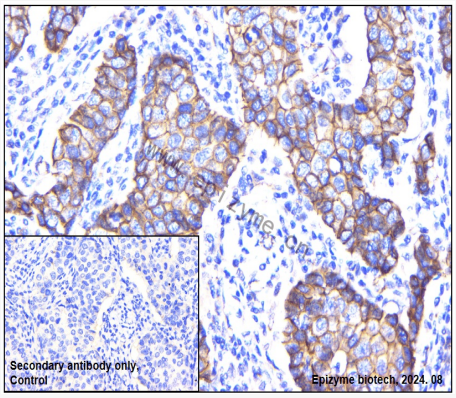
Western Blot - Anti-beta catenin Mouse mAb [79R45A03]
All lanes: M900009 at 1:5,000 dilution
Lane 1: HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates
Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 3: A431 (Human epidermoid carcinoma cell)whole cell lysates
Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 5: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 6: Rat muscle whole tissue lysates
Lane 7: Rat spleen whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Mouse IgG(H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
Predicted band size: 85 kDa
Observed band size: 85 kDa
Developed using the ECL technique (Cat. No. SQ201).



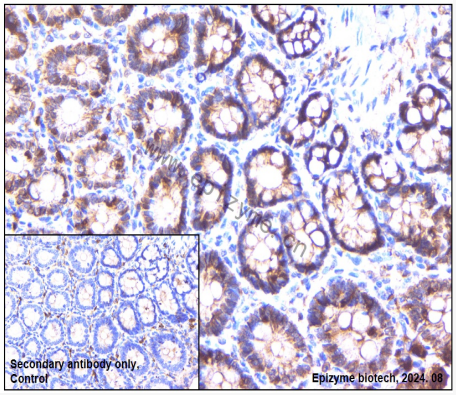
Immunofluorescence - Anti-beta catenin Mouse mAb [79R45A03]
Sample: A431 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: M900009 at 1:100 dilution
Secondary antibodies: Goat anti-Mouse (488) at 1:1,000 dilution (shown in green)
Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-beta catenin Mouse mAb [79R45A03]
Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: M900009 at 1:200 dilution
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-beta catenin Mouse mAb [79R45A03]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: M900009 at 1:200 dilution
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-beta catenin Mouse mAb [79R45A03]
Sample: Paraformaldehyde-fixed, paraffin embedded rat stomach tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: M900009 at 1:200 dilution
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.