

## Basic Information

<b>Product Name</b>	Anti-Beta Catenin/CTNNB1 Antibody	
<b>Gene Name</b>	CTNNB1	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Polyclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse, rat	
<b>Tested Application</b>	WB, IHC, IF, ICC/IF, FCM, ELISA	
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	E. coli-derived human beta Catenin recombinant protein (Position: A2-K233).	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	95 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Immunofluorescence (IF):	1:50-100
	Flow Cytometry (Fixed):	1:50-200
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000
	(Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

Catenins are proteins found in complexes with cadherin cell adhesion molecules of animal cells. The first two catenins that were identified became known as alpha-catenin and beta-catenin. Alpha-catenin can bind to beta-catenin and can also bind actin. Beta-catenin binds the cytoplasmic domain of some cadherins. Beta-catenin is an adherens junction protein. It plays an important role in various aspects of liver biology including liver development (both embryonic and postnatal), liver regeneration following partial hepatectomy. HGF-induced hepatomegaly, liver zonation, and pathogenesis of liver cancer.

## Reference

Anti-Beta Catenin/CTNNB1 Antibody 被引用在20文献中。

## Selected Validation Data

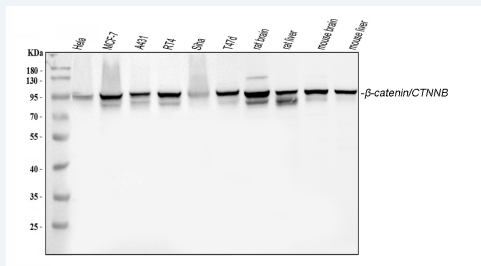


Figure 1. Western blot analysis of anti- Catenin- $\beta$  antibody (A00004). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: HeLa whole cell lysates,

Lane 2: MCF-7 whole cell lysates,

Lane 3: A431 whole cell lysates,

Lane 4: RT4 whole cell lysates,

Lane 5: SIHA whole cell lysates,

Lane 6: T47D whole cell lysates,

Lane 7: rat brain tissue lysates,

Lane 8: rat liver tissue lysates,

Lane 9: mouse brain tissue lysates,

Lane 10: mouse liver tissue lysates.

Use rabbit anti- Catenin- $\beta$  1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for Catenin- $\beta$  at approximately 95KD. The expected band size for Catenin- $\beta$  is at 85KD.

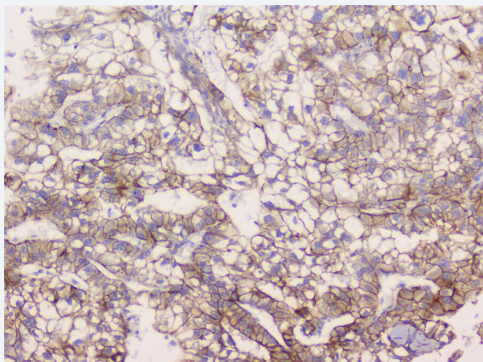


Figure 2. IHC analysis of CTNNB1 using anti-CTNNB1 antibody (A00004).CTNNB1 was detected in paraffin-embedded section of human liver cancer tissue. anti-CTNNB1 Antibody (A00004) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

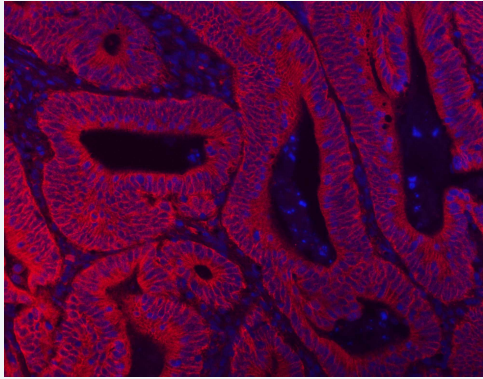


Figure 13. IF analysis using anti- Catenin- $\beta$  antibody (A00004). CTNNB1 was detected in paraffin-embedded section of human intestine cancer tissue. The tissue section were stained using the cy3-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog # BA1032) and counterstained with DAPI (blue).

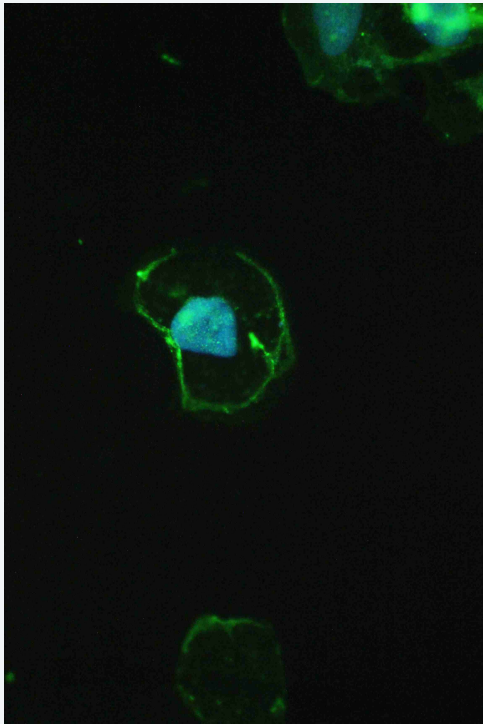


Figure 14. IF analysis of CTNNB1 using anti- CTNNB1 antibody (A00004) CTNNB1 was detected in immunocytochemical section of A431 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 $\mu$ g/mL rabbit anti-CTNNB1 Antibody (A00004) overnight at 4°C. DyLight488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

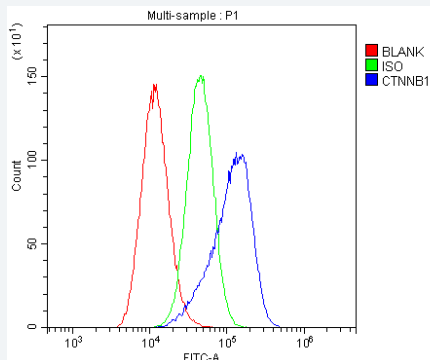


Figure 15. Flow Cytometry analysis of A549 cells using anti-CTNNB1 antibody (A00004).Overlay histogram showing A549 cells stained with A00004 (Blue line).. And then incubated with rabbit anti-CTNNB1 Antibody (A00004, 1:100) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody Isotype control antibody (Green line) was rabbit IgG (1:100) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

Product datasheet

## Anti-Beta Catenin/CTNNB1 Antibody

**Catalog Number: A00004**

**BOSTER**

antibody and ELISA experts

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