

## 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, ICC/IF	
<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>	A synthetic peptide corresponding to a sequence at the N-terminus of human beta Catenin, identical to the related rat and mouse sequences.	
<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
	(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34文献中。

## Selected Validation Data

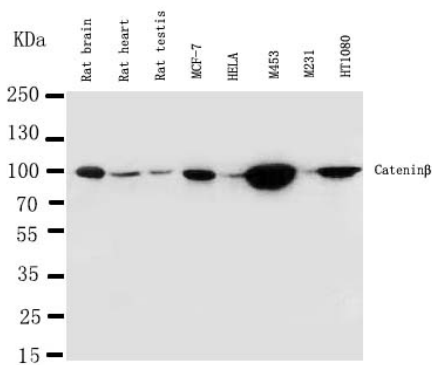


Figure 1. Western blot analysis of Beta Catenin/CTNNB1 using anti-Beta Catenin/CTNNB1 antibody (BA0426). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates,

Lane 2: rat heart tissue lysates,

Lane 3: rat testis tissue lysates,

Lane 4: human MCF-7 whole cell lysates,

Lane 5: human Hela whole cell lysates,

Lane 6: human M453 whole cell lysates,

Lane 7: human M231 whole cell lysates,

Lane 8: human HT1080 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Beta Catenin/CTNNB1 antigen affinity purified polyclonal antibody (BA0426) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Beta Catenin/CTNNB1 at approximately 95 kDa. The expected band size for Beta Catenin/CTNNB1 is at 85 kDa.

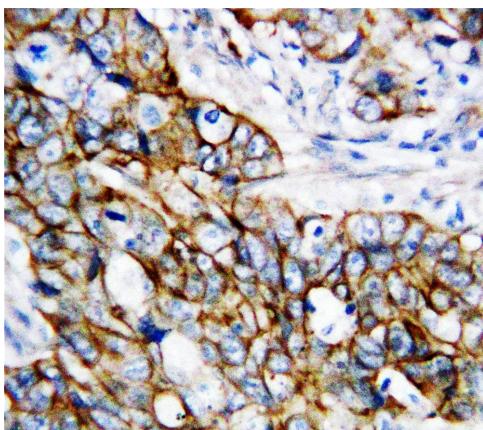


Figure 2. IHC analysis of Beta Catenin/CTNNB1 using anti-Beta Catenin/CTNNB1 antibody (BA0426).

Beta Catenin/CTNNB1 was detected in a paraffin-embedded section of human mammary cancer tissue. The tissue section was incubated with rabbit anti-Beta Catenin/CTNNB1 Antibody (BA0426) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1022) as the chromogen.

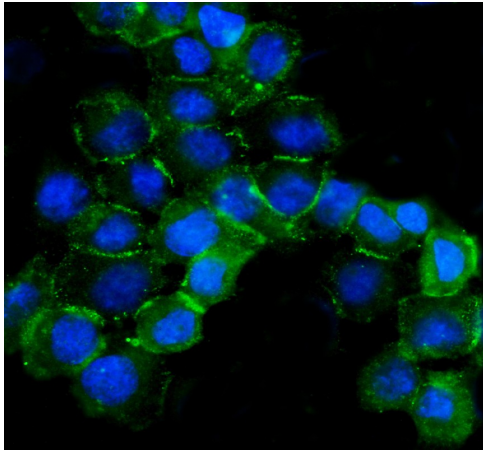


Figure 3. IF analysis of Beta Catenin/CTNNB1 using anti-Beta Catenin/CTNNB1 antibody (BA0426).

Beta Catenin/CTNNB1 was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-Beta Catenin/CTNNB1 Antibody (BA0426) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).