

For Research Use Only

# Beta Catenin Polyclonal antibody

Catalog Number: 51067-2-AP

Featured Product

710 Publications



## Basic Information

### Catalog Number:

51067-2-AP

### Size:

150ul, Concentration: 500 µg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

BC058926

### GeneID (NCBI):

1499

### ENSEMBL Gene ID:

ENSG00000168036

### UNIPROT ID:

P35222

### Full Name:

catenin (cadherin-associated protein), beta 1, 88kDa

### Calculated MW:

781 aa, 86 kDa

### Observed MW:

92 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:1000-1:4000

IF 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IF, FC, IHC, ELISA

### Cited Applications:

WB, IP, IF, IHC, CoIP, ChIP

### Species Specificity:

human, mouse, rat, pig

### Cited Species:

human, goat, chicken, rat, sheep, mouse, zebrafish, hamster, pig, canine

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB**: A431 cells, MCF-7 cells, human placenta tissue, mouse lung tissue, HeLa cells, SH-SY5Y cells, HEK-293 cells, NIH/3T3 cells, C6 cells, mouse liver tissue, rat liver tissue

**IP**: mouse liver tissue,

**IHC**: human colon cancer tissue, human breast cancer tissue, human liver cancer tissue, mouse colon tissue, mouse liver tissue

**IF**: MCF-7 cells, T-47D cells, mouse testis tissue, HeLa cells, HepG2 cells

## Background Information

β-Catenin, also known as CTNNB1, is an evolutionarily conserved, multifunctional intracellular protein. β-Catenin is a 92-kDa protein, originally identified in cell adherens junctions (AJs) where it functions to bridge the cytoplasmic domain of cadherins to α-catenin and the actin cytoskeleton. Besides its essential role in the AJs, β-catenin is also a key downstream component of the canonical Wnt pathway that plays diverse and critical roles in embryonic development and adult tissue homeostasis. The Wnt/β-catenin pathway is also involved in the activation of other intracellular messengers such as calcium fluxes, JNK, and SRC kinases. Deregulation of β-catenin activity is associated with multiple diseases including cancers. (PMID: 22617422; 18334222)

## Notable Publications

Author	Pubmed ID	Journal	Application
Min Zhou	36171592	J Exp Clin Cancer Res	WB
Wen-Long Lei	34580275	Cell Death Dis	WB,IF
Ke-Xin Wang	34649212	Phytomedicine	WB,IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

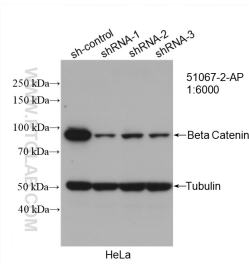
For technical support and original validation data for this product please contact:

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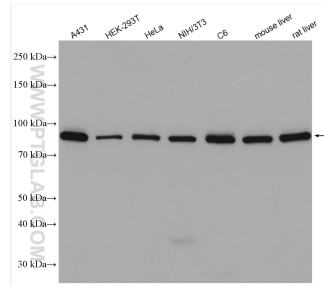
E: proteintech@ptglab.com  
W: ptglab.com

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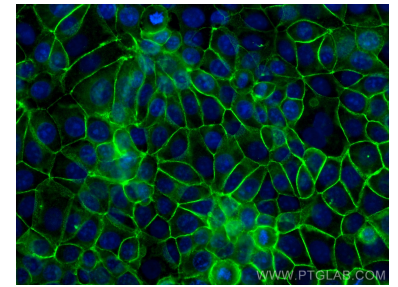
## Selected Validation Data



WB result of Beta Catenin antibody (51067-2-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Beta Catenin transfected HeLa cells.



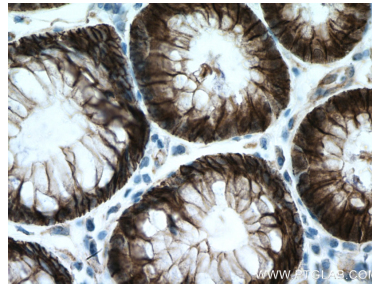
Various lysates were subjected to SDS PAGE followed by western blot with 51067-2-AP (Beta Catenin antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



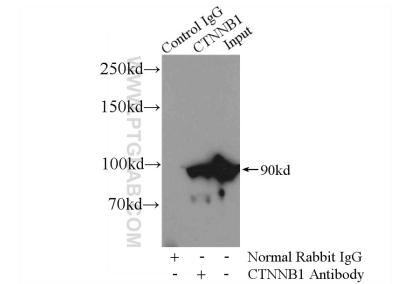
Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using Beta Catenin antibody (51067-2-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit Ig(H+L).



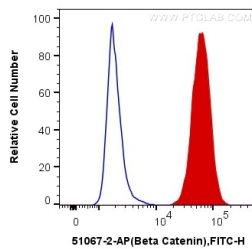
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 51067-2-AP (beta-Catenin antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 51067-2-AP (beta-Catenin antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Beta Catenin (IP:51067-2-AP, 4ug; Detection:51067-2-AP 1:500) with mouse liver tissue lysate 6400ug.



1X10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.2 ug Anti-Human Beta Catenin (51067-2-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit Ig(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).