

## Allgemeine Informationen

**Katalog-Nr.:**

51067-2-AP

**Größe:**

150ul , Konzentration: 500 µg/ml von Nanodrop;

**Wirt:**

Kaninchen

**Isotyp:**

IgG

**GenBank-Zugangsnummer:**

BC058926

**GeneID (NCBI):**

1499

**Vollständiger Name:**

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

**Berechnete Masse:**

781 aa, 86 kDa

**Beobachtete Masse:**

92 kDa

**Reinigungsmethode:**

Antigen-Affinitätsreinigung

**Empfohlene Verdünnungen:**

WB 1:5000-1:50000

IP 0.5-4.0 ug für IP und 1:500-1:1000

für WB

IHC 1:1000-1:4000

IF 1:50-1:500

## Anwendungen

**Geprüfte Anwendungen:**

FC, IF, IHC, IP, WB, ELISA

**In Publikationen genannte Anwendungen:**

chIP, CoIP, IF, IHC, IP, WB

**Getestete Reaktivität:**

Hausschwein, Human, Maus, Ratte

**Zitierte Arten:**

Hamster, Hausschwein, Huhn, Human, Hund, Maus, Ratte, Rind, Ziege

**Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

**Positivkontrollen:**

**WB:** A431-Zellen, C6-Zellen, HEK-293-Zellen, HeLa-Zellen, humanes Plazenta-Gewebe, Mauslebergewebe, Mauslungengewebe, MCF-7-Zellen, NIH/3T3-Zellen, Rattenlebergewebe, SH-SY5Y-Zellen

**IP:** Mauslebergewebe,

**IHC:** humanes Kolonkarzinomgewebe, humanes Leberkarzinomgewebe, humanes Mammakarzinomgewebe, Maus-Kolongewebe, Mauslebergewebe

**IF:** MCF-7-Zellen, HeLa-Zellen, HepG2-Zellen, Maushodengewebe, T-47D-Zellen

## Hintergrundinformationen

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)

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
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

## Lagerung

**Lagerungsbedingungen:**

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

**Lagerungspuffer:**

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

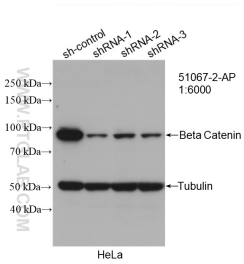
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

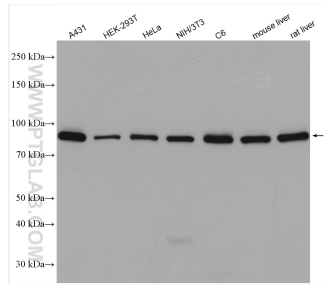
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
 W: [ptglab.com](http://ptglab.com)

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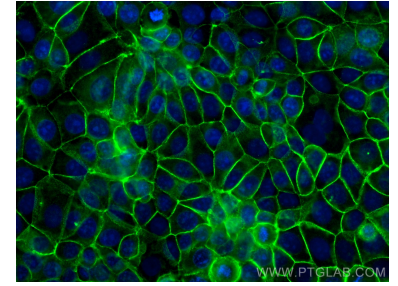
## Ausgewählte Validierungsdaten



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.



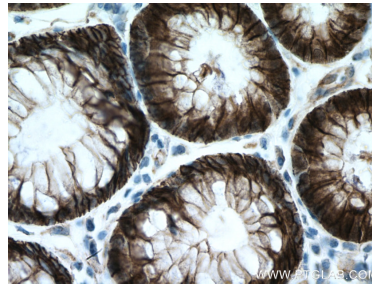
Various lysates were subjected to SDS PAGE followed by western blot with 51067-2-AP (Beta Catenin antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



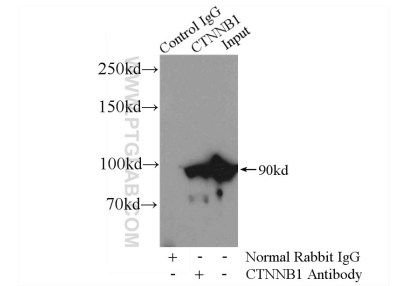
Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using Beta Catenin antibody (51067-2-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit Ig(H+L).



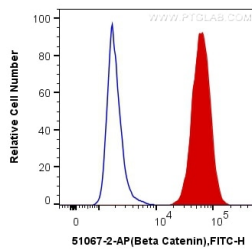
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 51067-2-AP (beta-Catenin antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).