

For Research Use Only

Beta Catenin Polyclonal antibody

Catalog Number: 51067-2-AP

Featured Product

680 Publications



Basic Information

Catalog Number: 51067-2-AP	GenBank Accession Number: BC058926	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 1499	Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Source: Rabbit	Full Name: catenin (cadherin-associated protein), beta 1, 88kDa	IHC 1:1000-1:4000 IF 1:50-1:500
Isotype: IgG	Calculated MW: 781 aa, 86 kDa	
	Observed MW: 92 kDa	

Applications

Tested Applications: FC, IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: ChIP, CoIP, IF, IHC, IP, WB	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
Species Specificity: human, mouse, rat, pig	IP: mouse liver tissue,
Cited Species: human, goat, chicken, rat, sheep, mouse, zebrafish, hamster, pig, canine	IHC: human colon cancer tissue, human breast cancer tissue, human liver cancer tissue, mouse colon tissue, mouse liver tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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

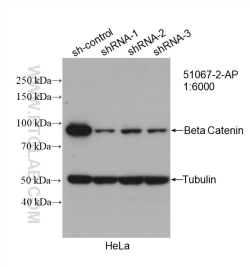
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

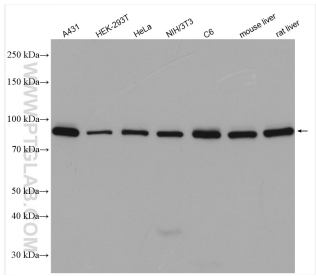
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

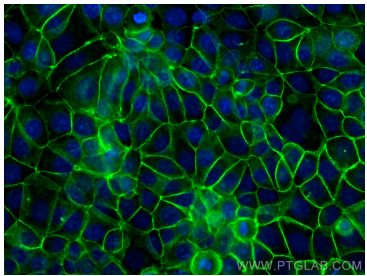
Selected Validation Data



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.



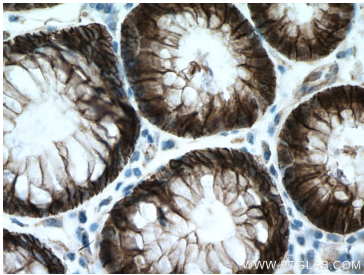
Various lysates were subjected to SDS PAGE followed by western blot with 51067-2-AP (Beta Catenin antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



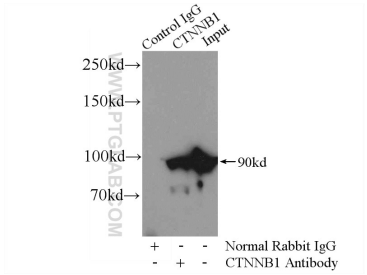
Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using Beta Catenin antibody (51067-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



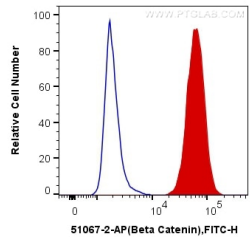
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 51067-2-AP (beta-Catenin antibody) at dilution of 1:2000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.



1X10⁶ 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 IgG(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).