

For Research Use Only

# Beta Catenin Recombinant antibody

Catalog Number: 80488-1-RR



## Basic Information

Catalog Number: 80488-1-RR	GenBank Accession Number: BC058926	Purification Method: Protein A purification
Concentration: 1000 ug/ml	GeneID (NCBI): 1499	CloneNo.: 2J24
Source: Rabbit	ENSEMBL Gene ID: ENSG00000168036	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF/ICC 1:1000-1:4000
Isotype: IgG	UNIPROT ID: P35222	
	Full Name: catenin (cadherin-associated protein), beta 1, 88kDa	
	Calculated MW: 781 aa, 86 kDa	
	Observed MW: 92 kDa	

## Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat, pig, zebrafish	WB : A431 cells, zebrafish tissue, HeLa cells, HEK-293 cells, MCF-7 cells, LNCaP cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, pig brain tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	IHC : human liver cancer tissue, human breast cancer tissue, human colon cancer tissue, human rectal cancer tissue
	IF/ICC : MCF-7 cells,

## Background Information

$\beta$ -Catenin, also known as CTNNB1, is an evolutionarily conserved, multifunctional intracellular protein.  $\beta$ -Catenin is a 92-kDa protein, originally identified in cell adherens junctions (AJs) where it functions to bridge the cytoplasmic domain of cadherins to  $\alpha$ -catenin and the actin cytoskeleton. Besides its essential role in the AJs,  $\beta$ -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/ $\beta$ -catenin pathway is also involved in the activation of other intracellular messengers such as calcium fluxes, JNK, and SRC kinases. Deregulation of  $\beta$ -catenin activity is associated with multiple diseases including cancers. (PMID: 22617422; 18334222)

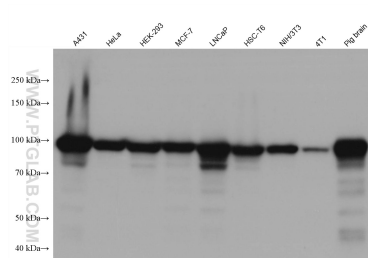
## Storage

Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

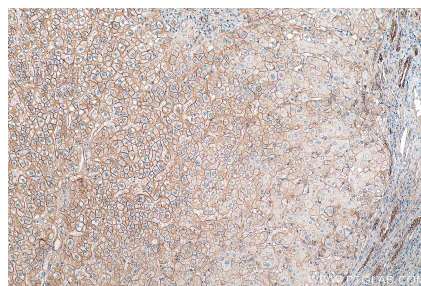
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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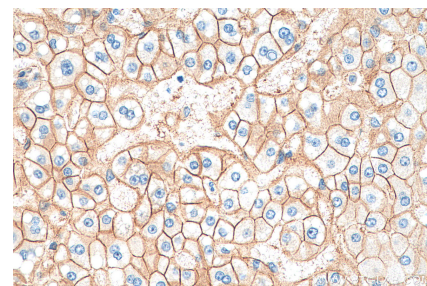
## Selected Validation Data



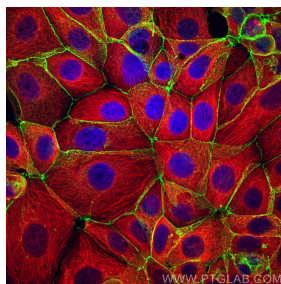
Various lysates were subjected to SDS PAGE followed by western blot with 80488-1-RR (Beta Catenin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 80488-1-RR (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 liver cancer tissue slide using 80488-1-RR (Beta Catenin antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Beta Catenin antibody (80488-1-RR, Clone: 2J24) at dilution of 1:500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), Alpha Tubulin antibody (66031-1-Ig, Clone: 1E4C11, red).