

# Phospho-Beta Catenin (Ser552) Polyclonal antibody

Catalog Number: **28778-1-AP**

## Basic Information

### Catalog Number:

28778-1-AP

### Size:

150 µg/ml

### 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:

86-100 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

IF/ICC, WB, ELISA

### Species Specificity:

Human, Mouse, Rat

### Positive Controls:

**WB** : Forskolin treated A431 cells, HSC-T6 cells,  
Forskolin treated HSC-T6 cells, HT-29 cells, Forskolin  
treated HT-29 cells

**IF/ICC** : MCF-7 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, PMID: 18334222). Both AMPK and AKT phosphorylates β-catenin at Ser 552. The phosphorylation of β-catenin at Ser552 can stabilize β-catenin, enhance its nuclear accumulation and increase its transcriptional activity (PMID: 2865606, PMID: 20361929).

## 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

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

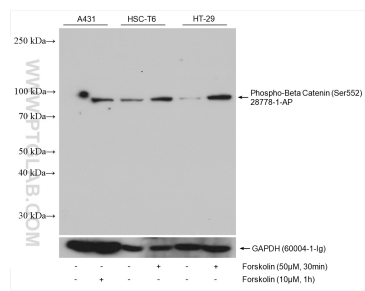
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

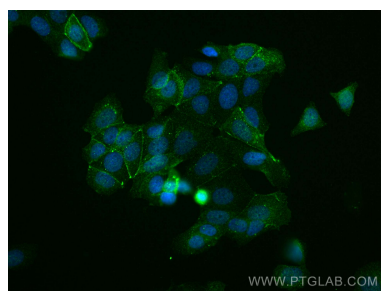
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Untreated and Forskolin treated cells were subjected to SDS PAGE followed by western blot with 28778-1-AP (Phospho-Beta Catenin (Ser552) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (60004-1-Ig) antibody as loading control.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Phospho-Beta Catenin (Ser552) antibody (28778-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).