

For Research Use Only

# Phospho-Beta Catenin (Ser33) Recombinant antibody



Catalog Number: 80067-1-RR

5 Publications

## Basic Information

Catalog Number:

80067-1-RR

Size:

500 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:

90 kDa

Purification Method:

Protein A purification

CloneNo.:

3K1

Recommended Dilutions:

WB 1:5000-1:50000

## Applications

Tested Applications:

FC, WB, ELISA

Cited Applications:

WB

Species Specificity:

Human, Mouse, Rat

Cited Species:

human, mouse

Positive Controls:

WB : PC-3 cells, HT-29 cells, Calyculin A treated HT-29  
cells, Calyculin A treated PC-3 cells

## Background Information

β-Catenin, also known as CTNNB1, is an evolutionarily conserved, multifunctional intracellular protein. β-Catenin was 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). CK1 phosphorylates β-Catenin at Ser45. This phosphorylation event primes β-Catenin for subsequent phosphorylation by GSK-3β. GSK-3β destabilizes β-catenin by phosphorylating it at Ser33, Ser37, and Thr41. Mutations at these sites result in the stabilization of β-Catenin protein levels and have been found in many tumor cell lines.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qiang Zuo	34494093	Acta Biochim Biophys Sin (Shanghai)	WB
Yuan Zhao	35720633	Exp Ther Med	WB
Mianmian Liao	34149413	Front Pharmacol	WB

## 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:

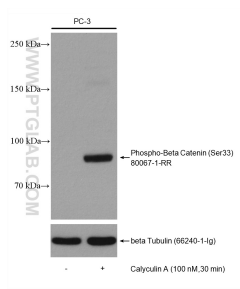
T: 4006900926

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

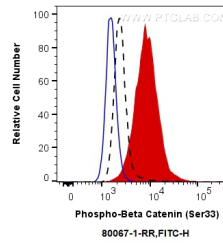
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## Selected Validation Data



Non-treated PC-3 and Calyculin A treated PC-3 cells were subjected to SDS PAGE followed by western blot with 80067-1-RR (Phospho-Beta Catenin (Ser33)antibody) at dilution of 1:10000 incubated at 4°C overnight. The membrane was stripped and re-blotted with beta tubulin (66240-1-Ig) antibody as loading control.



1X10<sup>6</sup> PC-3 cells untreated (dashed lines) or treated with Calyculin A (red) were intracellularly stained with 0.25 ug Anti-Human Phospho-Beta Catenin (Ser33) (80067-1-RR, Clone:3K1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000, or 0.25 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.