

For Research Use Only

Phospho-Beta Catenin (Ser33) Recombinant monoclonal antibody

Catalog Number: 80067-1-RR

13 Publications



Basic Information

Catalog Number:

80067-1-RR

Concentration:

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

FC (Intra): 0.25 µg per 10⁶ cells in a
100 µl suspension

Applications

Tested Applications:

WB, ELISA, FC (Intra)

Cited Applications:

WB, IF

Species Specificity:

Human, Mouse, Rat

Cited Species:

human, mouse, rat

Positive Controls:

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

FC (Intra) : Calyculin A treated PC-3 cells, 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

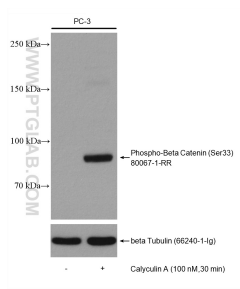
T: 4006900926

E: Proteintech-CN@ptglab.com

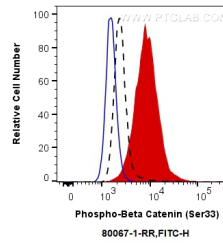
W: ptgcn.com

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Selected Validation Data



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.



1X10⁶ 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 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.