For Research Use Only

Phospho-Beta Catenin (Ser33) Recombinant antibody, PBS Only

Catalog Number:80067-1-PBS

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Basic Information

Catalog Number:
80067-1-PBS

Size:
100ug , Concentration: 1mg/ml by Nanodrop;

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

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
Human, Mouse, Rat

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 a-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 .

Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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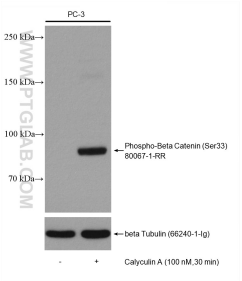
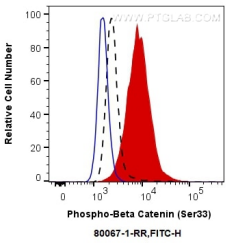
Selected Validation Data



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. This data was developed using the same antibody clone with 80067-1-PBS in a different storage buffer formulation.



1X10^6 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. This data was developed using the same antibody clone with 80067-1-PBS in a different storage