

For Research Use Only

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



Catalog Number: 80067-1-PBS

Basic Information

Catalog Number: 80067-1-PBS	GenBank Accession Number: BC058926	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 1499	CloneNo.: 3K1
Source: Rabbit	ENSEMBL Gene ID: ENSG00000168036	
Isotype: IgG	UNIPROT ID: P35222	
	Full Name: catenin (cadherin-associated protein), beta 1, 88kDa	
	Calculated MW: 781 aa, 86 kDa	
	Observed MW: 90 kDa	

Applications

Tested Applications:
WB, FC, 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 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-3 β . GSK-3 β 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

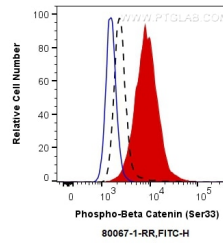
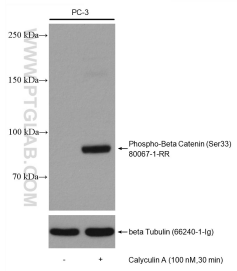
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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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.

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 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