

For Research Use Only

Phospho-Beta Catenin (Ser675) Recombinant antibody



Catalog Number: 80084-1-RR **1 Publications**

Basic Information

Catalog Number: 80084-1-RR	GenBank Accession Number: BC058926	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 1499	CloneNo.: 6D6
Source: Rabbit	Full Name: catenin (cadherin-associated protein), beta 1, 88kDa	Recommended Dilutions:
Isotype: IgG	Calculated MW: 781 aa, 86 kDa	
	Observed MW: 90-100 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls:
Cited Applications: WB	WB : HEK-293 cells, λ phosphatase treated HEK-293, λ phosphatase treated NIH/3T3 cells
Species Specificity: Human, mouse, rat	
Cited Species: mouse	

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). PKA was shown to phosphorylate β-catenin at Ser675. Phosphorylation at Ser675 induces β-catenin accumulation in the nucleus and increases its transcriptional activity.

Notable Publications

Author	Pubmed ID	Journal	Application
Nan Yang	35682866	Int J Mol Sci	WB

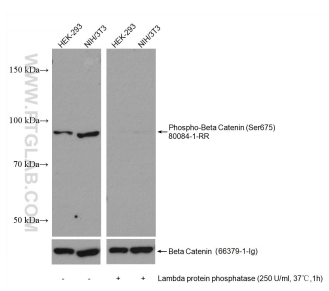
Storage

Storage:
Store at -20°C.
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:
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Selected Validation Data



Lambda protein phosphatase treated HEK-293 and NIH/3T3 and Non-treated HEK-293 and NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80084-1-RR (Phospho-Beta Catenin (Ser675) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was re-blotted with Beta Catenin antibody 66379-1-Ig as control.