

For Research Use Only

Phospho-Beta Catenin (Ser552) Polyclonal antibody



Catalog Number: 28778-1-AP

Basic Information

Catalog Number: 28778-1-AP	GenBank Accession Number: BC058926	Purification Method: Antigen affinity purification
Size: 150 µg/ml	GeneID (NCBI): 1499	Recommended Dilutions: WB 1:1000-1:4000 IF 1:200-1:800
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: 86-100 kDa	

Applications

Tested Applications: IF/ICC, WB, ELISA	Positive Controls:
Species Specificity: Human, Mouse, Rat	WB : Forskolin treated A431 cells, HSC-T6 cells, Forskolin treated HSC-T6 cells, HT-29 cells, Forskolin treated HT-29 cells
	IF : MCF-7 cells,

Background Information

β -Catenin, also known as CTNNB1, is an evolutionarily conserved, multifunctional intracellular protein. β -Catenin is a 92-kDa protein, 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, PMID: 18334222). Both AMPK and AKT phosphorylates β -catenin at Ser 552. The phosphorylation of β -catenin at Ser552 can stabilize β -catenin, enhance its nuclear accumulation and increase its transcriptional activity (PMID: 2865606, PMID: 20361929).

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:

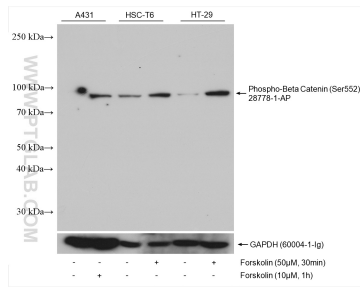
T: 4006900926

E: Proteintech-CN@ptglab.com

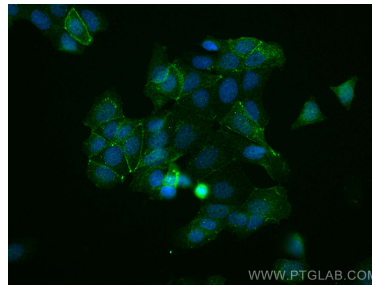
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Untreated and Forskolin treated cells were subjected to SDS PAGE followed by western blot with 28778-1-AP (Phospho-Beta Catenin (Ser552) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (60004-1-Ig) antibody as loading control.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Phospho-Beta Catenin (Ser552) antibody (28778-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).