

For Research Use Only

Phospho-Beta Catenin (Ser552) Polyclonal antibody

Catalog Number: 28778-1-AP



Basic Information

Catalog Number:

28778-1-AP

Size:

100ul, Concentration: 150 ug/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:

86-100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

Human, Mouse, Rat

Positive Controls:

WB : Forskolin treated A431 cells, HSC-T6 cells, Forskolin treated HSC-T6 cells, HT-29 cells, Forskolin treated HT-29 cells

IF/ICC : 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

*** 20ul sizes contain 0.1% BSA

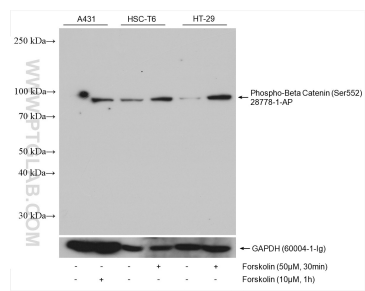
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

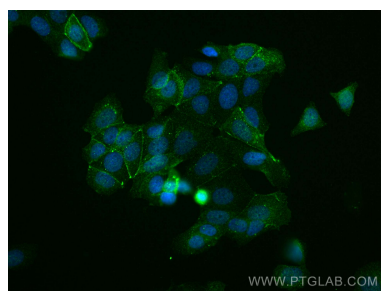
E: proteintech@ptglab.com
W: ptglab.com

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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).