

For Research Use Only

# Phospho-Beta Catenin (Ser552) Recombinant antibody, PBS Only

Catalog Number: 80035-2-PBS



## Basic Information

Catalog Number:

80035-2-PBS

Concentration:

1 mg/ml

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:

Protein A purification

CloneNo.:

250272E1

## Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

human

## Background Information

$\beta$ -Catenin, also known as CTNNB1, is an evolutionarily conserved, multifunctional intracellular protein.  $\beta$ -Catenin is a 92-kDa protein, originally identified in cell adherens junctions (AJs) where it functions to bridge the cytoplasmic domain of cadherins to  $\alpha$ -catenin and the actin cytoskeleton. Besides its essential role in the AJs,  $\beta$ -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/ $\beta$ -catenin pathway is also involved in the activation of other intracellular messengers such as calcium fluxes, JNK, and SRC kinases. Deregulation of  $\beta$ -catenin activity is associated with multiple diseases including cancers (PMID: 22617422, PMID: 18334222). Both AMPK and AKT phosphorylates  $\beta$ -catenin at Ser 552. The phosphorylation of  $\beta$ -catenin at Ser552 can stabilize  $\beta$ -catenin, enhance its nuclear accumulation and increase its transcriptional activity (PMID: 2865606, PMID: 20361929).

## Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

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

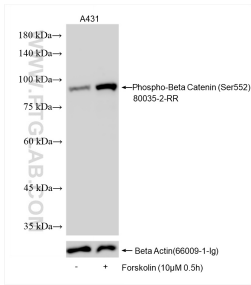
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

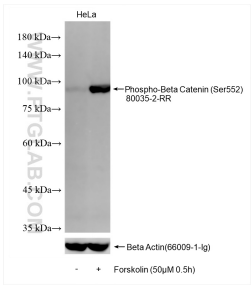
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## Selected Validation Data



Non-treated A431 cells and Forskolin treated A431 cells were subjected to SDS PAGE followed by western blot with 80035-2-RR (Phospho-Beta Catenin (Ser552) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (66009-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 80035-2-PBS in a different storage buffer formulation.



Non-treated HeLa cells and Forskolin treated HeLa cells were subjected to SDS PAGE followed by western blot with 80035-2-RR (Phospho-Beta Catenin (Ser552) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (66009-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 80035-2-PBS in a different storage buffer formulation.