

For Research Use Only

# CoraLite® Plus 647-conjugated Phospho-Beta Catenin (Ser675) Recombinant antibody



Catalog Number: **CL647-80084**

## Basic Information

<b>Catalog Number:</b> CL647-80084	<b>GenBank Accession Number:</b> BC058926	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1499	<b>CloneNo.:</b> 6D6
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000168036	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P35222	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm
	<b>Full Name:</b> catenin (cadherin-associated protein), beta 1, 88kDa	
	<b>Calculated MW:</b> 781 aa, 86 kDa	
	<b>Observed MW:</b> 90-100 kDa	

## Applications

### Tested Applications:

IF

### Species Specificity:

Human, mouse, rat

### Positive Controls:

IF : λ phosphatase treated MCF-7 cells,

## 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.

## Storage

### Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

### Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

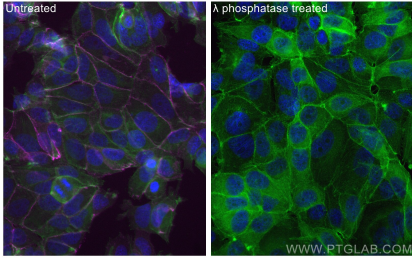
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed  $\lambda$  phosphatase treated MCF-7 cells using CoraLite® Plus 647 Phospho-Beta Catenin (Ser675) antibody (CL647-80084, Clone: 6D6) at dilution of 1:200, CL488-Phalloidin (green).