

For Research Use Only

# CoraLite® Plus 488-conjugated Phospho-Beta Catenin (Ser33) Recombinant antibody

Catalog Number:CL488-80067



## Basic Information

<b>Catalog Number:</b> CL488-80067	<b>GenBank Accession Number:</b> BC058926	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1499	<b>CloneNo.:</b> 3K1
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000168036	<b>Recommended Dilutions:</b> FC (Intra): 0.50 ug per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P35222	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 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 kDa	

## Applications

<b>Tested Applications:</b> FC (Intra)	<b>Positive Controls:</b> FC (Intra) : Calyculin A treated PC-3 cells, PC-3 cells
<b>Species Specificity:</b> human	

## 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). CK1 phosphorylates β-Catenin at Ser45. This phosphorylation event primes β-Catenin for subsequent phosphorylation by GSK-3β. GSK-3β destabilizes β-catenin by phosphorylating it at Ser33, Ser37, and Thr41. Mutations at these sites result in the stabilization of β-Catenin protein levels and have been found in many tumor cell lines .

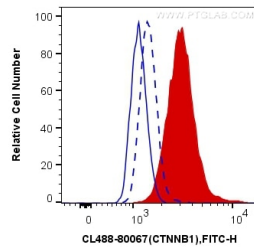
## Storage

**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, pH7.3  
**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



1X10<sup>6</sup> PC-3 cells untreated (dashed lines) or treated with Calyculin A (red) were intracellularly stained with 0.5 ug CoraLite® Plus 488 Anti-Human Phospho-Beta Catenin (Ser33) (CL488-80067, Clone:3K1), or 0.5 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.