

CoraLite® Plus 647-conjugated Phospho-Beta Catenin (Ser33) Recombinant antibody

Catalog Number: CL647-80067

Basic Information

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|---------------------------------------|---|---|
| Catalog Number: CL647-80067 | GenBank Accession Number: BC058926 | Purification Method: Protein A purification |
| Size: 1000 µg/ml | GeneID (NCBI): 1499 | CloneNo.: 3K1 |
| Source: Rabbit | ENSEMBL Gene ID: ENSG00000168036 | Excitation/Emission maxima wavelengths: 654 nm / 674 nm |
| Isotype: IgG | UNIPROT ID: P35222 | |
| | Full Name: catenin (cadherin-associated protein), beta 1, 88kDa | |
| | Calculated MW: 781 aa, 86 kDa | |
| | Observed MW: 90 kDa | |

Applications

Tested Applications:
FC (Intra)

Species Specificity:
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-3 β . GSK-3 β 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.

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

Aliquoting is unnecessary for -20°C storage

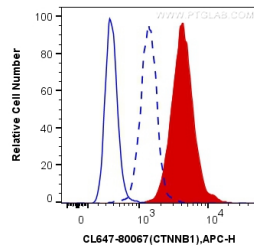
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Selected Validation Data



1X10⁶ PC-3 cells untreated (dashed lines) or treated with Calyculin A (red) were intracellularly stained with 0.13 ug CoraLite® Plus 647 Anti-Human Phospho-Beta Catenin (Ser33) (CL647-80067, Clone:3K1), or 0.13 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.