For Research Use Only

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



Catalog Number: CL 488-80067

Basic Information

Catalog Number: CL488-80067

Size: 1000 µg/ml Source:

Isotype: IgG

Rabbit

GenBank Accession Number:

BC058926 GenelD (NCBI): 1499

ENSEMBL Gene ID: ENSG00000168036 UNIPROT ID: P35222

catenin (cadherin-associated protein), beta 1, 88kDa

Calculated MW: 781 aa, 86 kDa Observed MW: 90 kDa

Full Name:

Purification Method:

Protein A purification CloneNo.:

Excitation/Emission maxima wavelengths:

wavelengths: 493 nm / 522 nm

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 a-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:

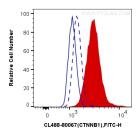
Store at -20°C. Avoid exposure to light.

Storage Buffer:

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

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



1X10^6 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:3X1), or 0.5 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.