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Datasheet for ABIN7488829
CTNNB1 Protein (His tag)

Overview

Quantity:	100 µg
Target:	CTNNB1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTNNB1 protein is labelled with His tag.

Product Details

Purpose:	Human Catenin beta-1 Protein, His Tag (MALS verified)
Sequence:	Asn 138 - Glu 686
Characteristics:	Human Catenin beta-1 Protein, His Tag is expressed from E. coli cells. It contains AA Asn 138 - Glu 686 (Accession # P35222-1).
Purity:	95 %
Endotoxin Level:	1.0 EU per µg
Grade:	MALS verified

Target Details

Target:	CTNNB1
Alternative Name:	Catenin beta-1 (CTNNB1 Products)
Background:	Key downstream component of the canonical Wnt signaling pathway. In the absence of Wnt,

Target Details

forms a complex with AXIN1, AXIN2, APC, CSNK1A1 and GSK3B that promotes phosphorylation on N-terminal Ser and Thr residues and ubiquitination of CTNNB1 via BTRC and its subsequent degradation by the proteasome. In the presence of Wnt ligand, CTNNB1 is not ubiquitinated and accumulates in the nucleus, where it acts as a coactivator for transcription factors of the TCF/LEF family, leading to activate Wnt responsive genes. Involved in the regulation of cell adhesion, as component of an E-cadherin:catenin adhesion complex. Acts as a negative regulator of centrosome cohesion. Involved in the CDK2/PTPN6/CTNNB1/CEACAM1 pathway of insulin internalization. Blocks anoikis of malignant kidney and intestinal epithelial cells and promotes their anchorage-independent growth by down-regulating DAPK2. Disrupts PML function and PML-NB formation by inhibiting RANBP2-mediated sumoylation of PML. Promotes neurogenesis by maintaining sympathetic neuroblasts within the cell cycle. Involved in chondrocyte differentiation via interaction with SOX9: SOX9-binding competes with the binding sites of TCF/LEF within CTNNB1, thereby inhibiting the Wnt signaling.

Molecular Weight: 62.1 kDa

Pathways: [WNT Signaling](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Peptide Hormone Metabolism](#), [Regulation of Muscle Cell Differentiation](#), [Cell-Cell Junction Organization](#), [Tube Formation](#), [Maintenance of Protein Location](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#)

Application Details

Comment: This protein carries a polyhistidine tag at the N-terminus. (10xHis) The protein has a calculated MW of 62.1 kDa. The protein migrates as 60-65 kDa under reducing (R) condition (SDS-PAGE).

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS

Storage: -80 °C

Storage Comment: -70°C