

β Catenin (Phospho Ser37) (PT0894R) PT® Rabbit mAb

CatalogNo: YM8663 Recombinant R

Key Features

Host Species

Rabbit

Reactivity

Human N

Human, Mouse, Rat

Applications
• WB,IF,IP,ELISA

MW

86kD (Calculated)
 86kD (Observed)

Isotype

IgG,Kappa

Recommended Dilution Ratios

WB 1:500-1:2000 IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Basic Information

Clonality Monoclonal

Clone Number PT0894R

Immunogen Information

Specificity

Phospho-Catenin- β (S37) Antibody detects endogenous levels of Catenin- β protein only when phosphorylated at S37. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):IHsGA

Target Information

Protein Name

Catenin-β;b-catenin;Beta catenin;Beta-catenin;Cadherin associated protein;Catenin (cadherin associated protein), beta 1, 88 kDa;Catenin beta 1;Catenin beta

Organism	Gene ID	UniProt ID
Human	<u>1499</u> ;	P35222;
Mouse	12387;	Q02248;
Rat	84353;	Q9WU82;

Cellular Localization Cytoplasm . Nucleus . Cytoplasm, cytoskeleton . Cell junction , adherens junction . Cell junction . Cell membrane . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole. Cell junction, synapse . Cytoplasm, cytoskeleton, cilium basal body . Colocalized with RAPGEF2 and TJP1 at cell-cell contacts (By similarity). Cytoplasmic when it is unstabilized (high level of phosphorylation) in the contact in the colocalized to the nucleus when it is stabilized (low level of phosphorylation). Interaction with GLIS2 and MUC1 promotes nuclear translocates to the nucleus when it is stabilized (low level of phosphorylation). Interaction with GLIS2 and MUC1 promotes nuclear translocation. Interaction with EMD inhibits nuclear localization. The majority of beta-catenin is localized to the cell membrane. In interphase, colocalizes with CROCC between CEP250 puncta at the proximal end of centroles, and this localization is dependent on CROCC and CEP250. In mitosis, when NEK2 activity increases, it localizes to centrosomes at spindle poles independent of CROCC. Colocalizes with CDK5 in the cell-cell contacts and plasma membrane of undifferentiated and differentiated neuroblastoma cells. Interaction with FAM53B promotes translocation to the nucleus (PubMed:25183871).

Tissue specificity Expressed in several hair follicle cell types: basal and peripheral matrix cells, and cells of the outer and inner root sheaths. Expressed in colon. Present in cortical neurons (at protein level). Expressed in breast cancer tissues (at protein level) (PubMed:29367600)

Function

Disease:A chromosomal rearrangement involving CTNNB1 may be a cause of salivary gland pleiomorphic adenomas (PA) [181030]. Pleiomorphic adenomas are the most common benign epithelial tumors of the salivary gland. Translocation t(3;8)(p21;q12) with PLAG1., Disease:Activating mutations in CTNNB1 have oncogenic activity resulting in tumor development. Somatic mutations are found in various tumor types, including colon cancers, ovarian and prostate carcinomas, hepatoblastoma (HB), hepatocellular carcinoma (HCC). HBs are malignant embryonal tumors mainly affecting young children in the first three years of life. Disease:Defects in CTNNB1 are a cause of pilomatrixoma (PTR) [MIM:1352060]; a common benign skin tumor. Disease:Defects in CTNNB1 are a cause of pilomatrixoma (PTR) [MIM:135200]; a common benign skin tumor. Disease:Defects in CTNNB1 are associated with colorectal cancer (CRC) [MIM:14500], Disease:Defects in CTNNB1 are associated with ovarian cancer [MIM:167000]. Ovarian cancer is the leading cause of death from gynecologic malignancy. It is characterized by advanced presentation with loco-regional dissemination in the peritoneal cavity and the rare incidence of visceral metastases. These typical features relate to the biology of the disease, which is a principal determinant of outcome, Function:Involved in the regulation of cell adhesion and in signal transduction through the Wnt pathway, online information:Beta-catenin entry, PTM:EGF stimulates tyrosine phosphorylation. Phosphorylation on Tyr-654 decreases CDH1 binding and enhances TBP binding, PTM:Phosphorylation by GSK3B requires prior phosphorylation of Ser-45 by another kinase. Phosphorylation proceeds then from Thr-41 to Ser-37 and Ser-33. PTM:Ubiquitinated by a E3 ubiquitin ligase complex containing UBED1, SIAH12, CACKPB/PSIP, SRPIA, APC and TBL1X (Probabel). Its ubiquitination proceeds then from Thr-41 to Ser-33. PTM:Ubiquitinated by a E3 ubiquitin ligase complex containing UBED1, SIAH12, CACKPB/PSIP, SRPIA, APC and TBL1X (Probabel). Its ubiquitinati (via the cytoplasmic juxtamembrane domain), tissue specificity; Expressed in several hair follicle cell types; basal and peripheral matrix cells, and cells of the outer and inner root sheats. Expressed in colon,

Validation Data

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β Catenin (Phospho Ser37) (PT0894R) PT® Rabbit mAb

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