

β Catenin (Phospho Thr41/Ser45) (PT0637R) PT® Rabbit mAb

CatalogNo: YM8446 Recombinant R

Key Features

Host Species

Rabbit

MW Is

86kD (Calculated)
92kD (Observed)

Reactivity

· Human, Mouse, Rat,

Isotype

IgG,Kappa

ApplicationsWB,IF,IP,ELISA

Recommended Dilution Ratios

WB 1:2000-1:10000 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 PT0637R

Immunogen Information

Specificity Endogenous

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>	<u>P35222;</u>
Mouse	12387;	<u>Q02248;</u>
Rat	84353;	Q9WU82;

Cellular Localization

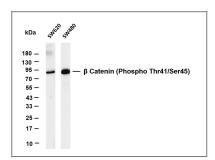
Function

Membrane, Cytoplasm

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).

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:132600]; a common benign skin tumor.,Disease:Defects in CTNNB1 are a sociated with colorectal cancer (CRC) [MIM:14500],Disease:Defects in CTNNB1 are associated with ovarian cancer [MM: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 dissease, 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-caterin 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-33. pTM:Ubiquitinated by a E3 ubiquitin ligase complex containing UBED1, SIAH1, CACYBPS/IS, FSRP1, APC and TBL1X (Probabel). Its ubiquitination leads to its subsequent proteasomal degradation, similarity:Belogings to the beta-caterin family, similarity-Contains 12 ARM repeats, subcellular location:Cytoplasmic when it is unstabilized (high level of phosphorylation) on bound to CDH1. Translocates to the nucleus when it is stabilized (lo

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-β Catenin (Phospho Thr41/Ser45) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: SW620 Lane 2: SW480 Predicted band size: 86kDa Observed band size: 92kDa

Contact information

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