

β Catenin (Phospho Ser675) (PT0838R) PT® Rabbit mAb

CatalogNo: YM8253 Recombinant R

Key Features

Host Species

Rabbit

MW • 85kD (Calculated) 85kD (Observed) Reactivity • Human, Mouse, Rat,

Isotype

IgG,Kappa

Applications
• WB,IF,IP,ELISA

Recommended Dilution Ratios

WB 1:1000-1:5000 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 PT0838R

Immunogen Information

Specificity β Catenin (Phospho Ser675) Antibody detects endogenous levels of β Catenin protein only when phosphorylated at Ser675.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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):RLsVE

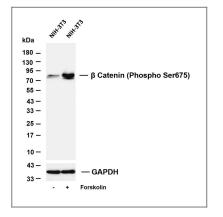
Target Information

Gene name CTNNB1 CTNNB OK/SW-cl.35 PRO2286

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-1;CATNB;CHBCAT;CTNB1_HUMAN;CTNNB1;DKFZp686D02253;FLJ25606;FLJ37923;OTTHUMP0000162082;OTTHUMP00000165222;OTTHUMP00000165223;OTTHUMP00000209288;OTTHUMP00000209289		
	Organism	Gene ID	UniProt ID
	Human	<u>6240;</u>	<u>P35222;</u>
	Mouse	12387;	<u>Q02248;</u>
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) or bound to CDH1. 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 depender 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 FAM538 promotes translocation to the nucleus (PubMed:25183871).		

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 meduloblastoma (MBB) (IMI:155255). MBB is a malignant, invasive embryonal tumor of the cerebellum with a preferential manifestation in children. Disease: Defects in CTNNB1 are a cause of plomatrixoma (PTR) (IMIM:132600]; a common benign skin tumor, Disease: Defects in CTNNB1 are a sociated with ovarian cancer (IMI: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 on Tyr-654 decreases CDH1 binding and enhances containing UBE2D1, SIAH1, CACYBP/SIP, SKP1A, APC and TBL1X (Probable). Its ubiquitination leads to its subsequent proteasomal degradation. similarity:Belongs to the beta-catenin framity.primilarity:Contains 12 ARM repeats, subcellular location:Cytoplasmic when it is unstabilized (logi level of phosphorylation on TSC). SCR are uncerted with and costantic mutates tyrosine phosphorylation on Stense cates and ubiquitination or but each and its subsequent degradation, with EG2 and MUC1 promotes nucle
	similarity). Interacts with AJAP1, BAIAP1, CARM1, CTNNA3, CXADR and PCDH11Y. Binds SLC9A3R1. Interacts with GLIS2 and MUC1. Interacts with SLC30A9. Interacts with XIRP1 (By similarity). Interacts with PTPRU (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



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti- β Catenin (Phospho Ser675) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: NIH-3T3 Lane 2: NIH-3T3 was treated with Forskolin(30uM) for 1 hour Predicted band size: 85kDa Observed band size: 85kDa

Contact information

Orders:	order@immunoway.com
Support:	tech@immunoway.com
Telephone:	877-594-3616 (Toll Free), 408-747-0185
Website:	http://www.immunoway.com
Address:	2200 Ringwood Ave San Jose, CA 95131 USA



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