



Catenin-ß (Acetyl Lys49) rabbit pAb

Catalog No	BYab-16822
lsotype	lgG
Reactivity	Human;Mouse;Rat
Applications	WB; ELISA
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;CTNNB;CTNNB1;DKFZ
Immunogen	Synthesized peptide derived from human Catenin- β (Acetyl Lys49)
Specificity	This antibody detects endogenous levels of Human,Mouse,Rat Catenin- β (Acetyl Lys49)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:1000-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CTNNB1; CTNNB; OK/SW-cl.35; Catenin beta-1; Beta-catenin
Observed Band	92kD
Cell Pathway	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 cent
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).

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Function	negative regulation of transcription from RNA polymerase II promoter, microtubule cytoskeleton organization, embryonic axis specification, cell morphogenesis, cell morphogenesis involved in differentiation, skeletal system development, angiogenesis, blood vessel development, patterning of blood vessels, eye development, gastrulation with mouth forming second, formation of primary germ layer, endoderm formation, cell fate specification, cell fate determination, endodermal cell fate commitment, morphogenesis of a branching structure, cell activation, epithelial to mesenchymal transition, liver development, tissue homeostasis, vasculature development, morphogenesis of an epithelium, immune system development, leukocyte differentiation, regulation of myeloid leukocyte differentiation, transcription, regulation of transc
Background	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 (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 of the cerebellum with a preferential manifestation in children in the first three years of life., disease: Defects in CTNNB1 are a cause of medulloblastoma (MDB) [MIM:15525]. MDB is a malignant, invasive embryonal tumor of the cerebellum with a preferential manifestation in children, disease:Defects in CTNNB1 are a cause of pilomatrixoma (PTR) [MIM:132600]; a common benign skin tumor, disease: Defects in CTNNB1 are associated with ovarian cancer (CRC) [MIM:114500], disease:Defects in CTNNB1 are associated with ovarian cancer (MIM:16700]. 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, PTIM:EGF stimulates tyrosine phosphorylation. Phosphorylation on Ser-45 by another kinase. Phosphorylation proceeds then from Thr-41 to Ser-37 and Ser-33. PIM:Ubiquitinated by a E3 ubiquitin ligase complex containing UBE2D1, SIAH1, CACYBP/SIP, SKP1A, APC and TBL1X (Probable). Its ubiquitination leads to its subsequent proteasomal degradation., similarity:Belongs to the beta-catenin family, similarity: contains 12 ARM repeats. subcellular location. Syubunit: Two separate pools
matters needing attention	Avoid repeated freezing and thawing!

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