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# Catenin-β (Phospho Tyr489) Rabbit pAb

CatalogNo: YP0768 Orthogonal Validated 💽

# Key Features

Host Species <ul> <li>Rabbit</li> </ul>	Reactivity <ul> <li>Human,Mouse,Rat,Monkey</li> </ul>	Applications <ul> <li>WB,IHC,IF,ELISA</li> </ul>
MW • 92kD (Observed)	Isotype • IgG	

#### **Recommended Dilution Ratios**

WB 1:500-1:2000 IHC 1:100-1:300 ELISA 1:40000 IF 1:50-200

#### **Storage**

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

#### **Basic Information**

Clonality Polyclonal

# Immunogen Information

ImmunogenThe antiserum was produced against synthesized peptide derived from human Catenin-<br/>beta around the phosphorylation site of Tyr489. AA range:455-504

Phospho-Catenin- $\beta$  (Y489) Polyclonal Antibody detects endogenous levels of Catenin- $\beta$  protein only when phosphorylated at Y489.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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):LHyGL

### **Target Information**

Gene name	CTNNB1 CTNNB OK/SW-cl.35 PRO2286		
Protein Name		ed protein;Catenin (cadherin associated protein), beta 1, 88 kDa;Cat 6D02253;FLJ25606;FLJ37923;OTTHUMP0000162082;OTTHUMP0000 Gene ID	tenin beta 1;Catenin 00165222;OTTHUMP00000165223;OTTHUMP00000209288;OTTHUMP00000209289 UniProt ID
	Human	<u>1499;</u>	<u>P35222;</u>
	Mouse	<u>12387;</u>	<u>002248;</u>
	Rat	<u>84353;</u> ;	<u>Q9WU82;</u>
Cellular Localization	spindle pole. Cell junction, synapse <sup>2</sup> . Cytoplasm, cytoskeleton, ci phosphorylation) or bound to CDH1. Translocates to the nucleus nuclear localization. The majority of beta-catenin is localized to t on CROCC and CEP250. In mitosis, when NEK2 activity increases, undifferentiated and differentiated neuroblastoma cells. Interacti	lium basal body. Colocalized with RAPGEF2 and TJP1 at cell-cell cont when it is stabilized (low level of phosphorylation). Interaction with 0 he cell membrane. In interphase, colocalizes with CROCC between 0 , it localizes to centrosomes at spindle poles independent of CROCC. on with FAM53B promotes translocation to the nucleus (PubMed:251	
Tissue specificity	<ul> <li>Expressed in several hair follicle cell types: basal and peripheral tissues (at protein level) (PubMed:29367600).</li> </ul>	matrix cells, and cells of the outer and inner root sheaths. Expressed	d in colon. Present in cortical neurons (at protein level). Expressed in breast cancer
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 1(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, hepatobalstoma (HB), hepatocellular carcinoma (HCC). HBs are malignant embryonal tumors minily affecting young children in the first three years of life, Disease: Defects in CTNNB1 are a cause of medulloblastoma (HB) [MIN: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 fumatrixoma (FTN) [MIN:15200], a common benign skin tumor, 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, <i>Functionaling and enhances</i> TBP binding, PTM:Phosphorylation. Phosphorylation. Phosphorylation on Tyr-654 decreases CDH1 binding and enhances TBP binding. PTM:Phosphorylation, 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 UBE2D1, SAH1, CACPB/SIP, SRP14, APC and TEJX (Probable). Its ubiquitantion leads to its subsequent proteasomal degradation, similarity: Belongs to the beta-catenin family, similarity. Changes at Ubiquitination of CH14, ATM2 (APC and TB1X), PAC and TB1X, PAC and T		

## Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Catenin-beta (Phospho-Tyr489) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using Catenin-beta (Phospho-Tyr489) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COS7 cells treated with UV 15', using Catenin-beta (Phospho-Tyr489) Antibody. The lane on the right is blocked with the phospho peptide.

### **Contact information**

Orders:	order.cn@immunoway.com
Support:	support.cn@immunoway.com
Telephone:	400-8787-807(China)
Website:	http://www.immunoway.com.cn
Address:	2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information: Catenin-β (Phospho Tyr489) Rabbit pAb

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Antibody | ELISA Kits | Protein | Reagents