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# Catenin-β (4F2) Mouse mAb

CatalogNo: YM3403 Orthogonal Validated 💽

## Key Features

**Host Species** 

Mouse

Reactivity • Human,Mouse,Rat,Zebrafish ApplicationsWB,IF,IHC

MW • 92kD (Observed)

#### **Recommended Dilution Ratios**

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

#### **Storage**

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

### **Basic Information**

Clone Number 4F2

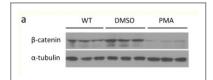
# Immunogen Information

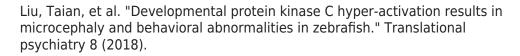
Immunogen	Recombinant Protein of Catenin-B
Specificity	The antibody detects endogenous Catenin- $\beta$ protein.

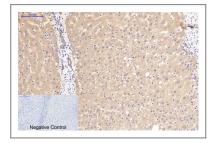
# Target Information

Protein Name	Catenin-β;b-catenin;Beta catenin;Beta-catenin;Cadherin associated prote beta-1;CATNB;CHBCAT;CTNB1_HUMAN;CTNNB;CTNNB1;DKFZp686D0225 Organism		8 kDa;Catenin beta 1;Catenin HUMP00000165222;OTTHUMP00000165223;OTTHUMP00000209288;OTTHUMP00000209289 UniProt ID	
	Human	<u>1499</u> ;	<u>P35222;</u>	
	Mouse		<u>Q02248;</u>	
	Rat		<u>Q9WU82;</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 GLS2 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	<ul> <li>Expressed in several hair follicle cell types: basal and peripheral matrix or tissues (at protein level) (PubMed:29367600).</li> </ul>	ells, and cells of the outer and inner root sheaths. I	Expressed 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;38)(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 color cancers, ovarian and prostate carcinomas, hepatobalstoma (HDB), hepatocellular carcinoma (HCC). HBs are malignant embryonal tumor of the cerebellum with a preferential manifestation in various tumor Disease:Defects in CTNNB1 are a cause of indent.Disease:Defects in CTNNB1 are a cause of plomatrixoma (PTR) [MIN:132600]; a common benign skin tumor.Disease:Defects in CTNNB1 are a sociated with volorectal cancer (CRC) (MIN:114500).Disease:Defects in CTNNB1 are a cause of plomatrixoma (PTR) [MIN:132600]; a common benign skin tumor.Disease:Defects in CTNNB1 are a sociated with volorectal cancer (CRC) (MIN:114500).Disease:Defects in CTNNB1 are a cause of plomatrixoma (PTR) [MIN:132600]; a common benign skin tumor.Disease:Defects in CTNNB1 are a sociated with vorain cancer (CRC) (MIN:114500).Disease:Defects in CTNNB1 are a cause of plomatrixoma (PTR) [MIN:132600]; a common benign skin tumor.Disease:Defects in CTNNB1 are a cause of plomatrixoma (PTR) [MIN:132600]; a common benign skin tumor.Bitease:Defects in CTNNB1 are a cause of plomatrixoma (PTR) [MIN:132600]; a common benign skin tumor.Bitease:Defects in CTNNB1 are a cause of plomatrixoma (PTR) [MIN:13400]. Disease:Defects in CTNNB1 may be a cause of plomatrixoma (PTR) [MIN:13400]. Disease:Defects in CTNNB1 are a cause of plomatrixoma (PTR) [MIN:13400]. Disease:Defects in CTNNB1 are a cause of plomatrixoma (PTR) [MIN:13400]. Disease:Defects in CTNNB1 are a cause of plomatrixoma (PTR) [MIN:13400]. Disease:Defects in CTNNB1 are a cause of plomatrixoma (PTR) [MIN:13400]. Disease:Defects in CTNNB1 are a cause of plomatrixoma (PTR) [MIN:13400]. Disease:Defect			

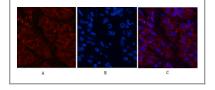
#### Validation Data



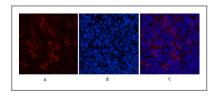




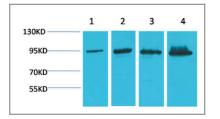
Immunohistochemical analysis of paraffin-embedded Human-liver tissue. 1,Catenin- $\beta$  Monoclonal Antibody(4F2) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunofluorescence analysis of Human-stomach-cancer tissue. 1,Catenin-β Monoclonal Antibody(4F2)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of Mouse-spleen tissue. 1,Catenin- $\beta$  Monoclonal Antibody(4F2)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Western blot analysis of 1) Hela, 2) 293T, 3) Mouse Liver Tissue, 4) Rat Liver Tissue using Catenin- $\beta$  Monoclonal Antibody.

# **Contact information**

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Please scan the QR code to access additional product information: Catenin-β (4F2) Mouse mAb

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