

# Beta-catenin (ABT-Catenin) IHC kit

CatalogNo: IHCM6675

## **Key Features**

**Host Species** 

Mouse

Reactivity

· Human, Mouse, Rat,

**Applications** 

IHC

Isotype

IgG2b,Kappa

#### **Recommended Dilution Ratios**

### **Storage**

Storage\*

2°C to 8°C/1 year

### **Basic Information**

**Clonality** 

Monoclonal

**Clone Number** 

**ABT-Catenin** 

## Immunogen Information

**Immunogen** 

Synthesized peptide derived from human Beta-catenin AA range: 700-781

**Specificity** 

The antibody can specifically recognize human  $\beta$ - Catenin protein.

### **Target Information**

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;DKFZp686D02253;FLJ25606;FLJ37923;OTTHUMP00000162082;OTTHUMP00000165222;OTTHUMP00000165223;OTTHUMP00000209288;OTTHUMP00000209289

Organism Gene ID UniProt ID Human P35222;

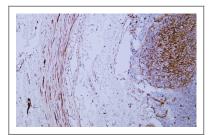
Cellular Localization Membranous

**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).

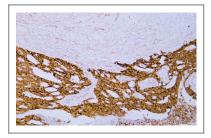
Function

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 pilomatrixoma (PTR) [MIM:132500]; a common benign skin tumor, Disease:Defects in CTNNB1 are a sacociated with colorectal cancer (CRC) [MIM:14500], Disease:Defects in CTNNB1 are a sasociated 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 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-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 UBE2D1, SIAH1, CACYBPS/PIS, SFRJA, 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:Cytoplasmic when it is unstabilized (high level of phosphorylation) in the cytoplasm: one is PSENLY/Cadherin/Catenin complex which anc

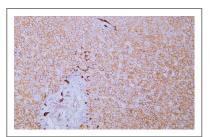
#### **| Validation Data**



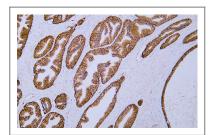
Human appendix tissue was stained with anti-Beta-catenin(ABT-Catenin) antibody.



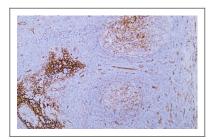
Human colon carcinoma tissue was stained with anti-Beta-catenin(ABT-Catenin) antibody.



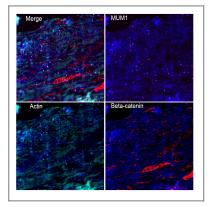
Human liver tissue was stained with anti-Beta-catenin(ABT-Catenin) antibody.



Human prostate tissue was stained with anti-Beta-catenin(ABT-Catenin) antibody.



Human tonsil tissue was stained with anti-Beta-catenin(ABT-Catenin) antibody.



Fluorescence multiplex immunohistochemical analysis of normal human appendix tissue (formalin-fixed paraffin-embedded section). The section was incubated in 3 rounds of staining; in the order of Actin . (Catalog no:YM6566 1/200 dilution), Beta-catenin . (Catalog no:YM6675 1/200 dilution), MUM1. (Catalog no:YM6762 1/200 dilution), each using a separate fluorescent tyramide signal amplification system: Treble-Fluorescence immunohistochemical mouse/rabbit kit Catalog NO: RS0035 (pH9.0)

#### | Contact information

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Please scan the QR code to access additional product information:

Beta-catenin (ABT-Catenin) IHC kit

For Research Use Only. Not for Use in Diagnostic Procedures.

Antibody | ELISA Kits | Protein | Reagents