

Catenin- beta (Phospho-Tyr489) Antibody

Catalog No: #12061

Package Size: #12061-1 50ul #12061-2 100ul

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Description

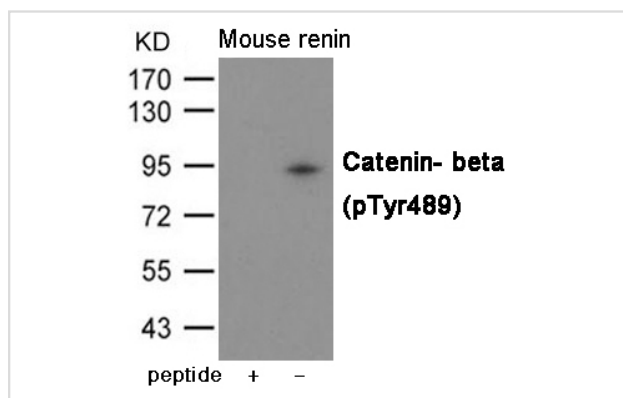
Product Name	Catenin- beta (Phospho-Tyr489) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of Catenin- beta only when phosphorylated at Tyrosine 489.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of Tyrosine 489 (L-H-Y(p)-G-L) derived from Human Catenin- beta.
Conjugates	Unconjugated
Target Name	Catenin- beta
Modification	Phospho
Other Names	CTNNB, MRD19, armadillo
Accession No.	Swiss-Prot#: P35222; NCBI Gene#: 1499; NCBI Protein#: NP_001091679.1
SDS-PAGE MW	92kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

Predicted MW: 92kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from Mouse renin using Catenin- beta (Phospho-Tyr489) Antibody #12061. The lane on the left is treated with the antigen-specific peptide.

Background

Key downstream component of the canonical Wnt signaling pathway. In the absence of Wnt, forms a complex with AXIN1, AXIN2, APC, CSNK1A1 and GSK3B that promotes phosphorylation on N-terminal Ser and Thr residues and ubiquitination of CTNNB1 via BTRC and its subsequent degradation by the proteasome. In the presence of Wnt ligand, CTNNB1 is not ubiquitinated and accumulates in the nucleus, where it acts as a coactivator for transcription factors of the TCF/LEF family, leading to activate Wnt responsive genes. Involved in the regulation of cell adhesion. Acts as a negative regulator of centrosome cohesion. Involved in the CDK2/PTPN6/CTNNB1/CEACAM1 pathway of insulin internalization. Blocks anoikis of malignant kidney and intestinal epithelial cells and promotes their anchorage-independent growth by down-regulating DAPK2. Disrupts PML function and PML-NB formation by inhibiting RANBP2-mediated sumoylation of PML.

Published Papers

el at., AMD3100 inhibits the migration and differentiation of neural stem cells after spinal cord injury. In Sci Rep on 2017 Mar 6 by Jia-Ming Liu , Kai Zhao, et al.. PMID: 28246405, , (2017)

[PMID:28246405](https://pubmed.ncbi.nlm.nih.gov/28246405/)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.