

产品名称: Phospho-beta Catenin (S33/S37) (7V18) Rabbit
Monoclonal Antibody
产品货号: AMRe05861



产品概述 (Summary)

产品名称 (Production Name)	Phospho-beta Catenin (S33/S37) (7V18) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB
种属反应性 (Reactivity)	Human, Mouse, Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Phosphorylated
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	CTNNB1
别名 (Alternative Names)	CATNB; CTNB1; CTNNB; catenin beta; beta catenin;
基因 ID (Gene ID)	1499.0
蛋白 ID (SwissProt ID)	P35222.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000
蛋白分子量 (Molecular Weight)	85kDa

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研究背景 (Background)

Beta-catenin is an adherens junction protein. Adherens junctions (AJs; also called the zonula adherens) are critical for the establishment and maintenance of epithelial layers, such as those lining organ surfaces. AJs mediate adhesion between cells, communicate a signal that neighboring cells are present, and anchor the actin cytoskeleton. In serving these roles, AJs regulate normal cell growth and behavior. Key downstream component of the canonical Wnt signaling pathway (PubMed: [17524503](http://www.uniprot.org/citations/17524503)), PubMed: [18077326](http://www.uniprot.org/citations/18077326), PubMed: [18086858](http://www.uniprot.org/citations/18086858), PubMed: [18957423](http://www.uniprot.org/citations/18957423), PubMed: [21262353](http://www.uniprot.org/citations/21262353), PubMed: [22155184](http://www.uniprot.org/citations/22155184), PubMed: [22647378](http://www.uniprot.org/citations/22647378), PubMed: [22699938](http://www.uniprot.org/citations/22699938)). 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 (PubMed: [17524503](http://www.uniprot.org/citations/17524503), PubMed: [18077326](http://www.uniprot.org/citations/18077326), PubMed: [18086858](http://www.uniprot.org/citations/18086858), PubMed: [18957423](http://www.uniprot.org/citations/18957423), PubMed: [21262353](http://www.uniprot.org/citations/21262353), PubMed: [22155184](http://www.uniprot.org/citations/22155184), PubMed: [22647378](http://www.uniprot.org/citations/22647378), PubMed: [22699938](http://www.uniprot.org/citations/22699938)). 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 (PubMed: [17524503](http://www.uniprot.org/citations/17524503), PubMed: [18077326](http://www.uniprot.org/citations/18077326), PubMed: [18086858](http://www.uniprot.org/citations/18086858), PubMed: [18957423](http://www.uniprot.org/citations/18957423), PubMed: [21262353](http://www.uniprot.org/citations/21262353), PubMed: [22155184](http://www.uniprot.org/citations/22155184), PubMed: [22647378](http://www.uniprot.org/citations/22647378), PubMed: [22699938](http://www.uniprot.org/citations/22699938)). Involved in the regulation of cell adhesion, as component of an E-cadherin:catenin adhesion complex (By similarity). Acts as a negative regulator of centrosome cohesion (PubMed: [18086858](http://www.uniprot.org/citations/18086858)). Involved in the

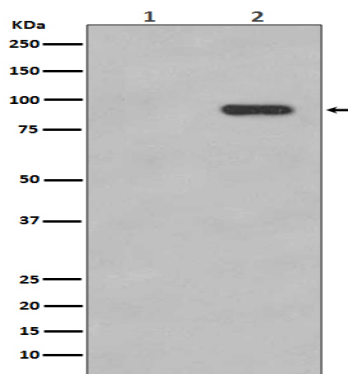
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CDK2/PTPN6/CTNNB1/CEACAM1 pathway of insulin internalization (PubMed:21262353). Blocks anoikis of malignant kidney and intestinal epithelial cells and promotes their anchorage-independent growth by down-regulating DAPK2 (PubMed:18957423). Disrupts PML function and PML- NB formation by inhibiting RANBP2-mediated sumoylation of PML (PubMed:22155184). Promotes neurogenesis by maintaining sympathetic neuroblasts within the cell cycle (By similarity). Involved in chondrocyte differentiation via interaction with SOX9: SOX9-binding competes with the binding sites of TCF/LEF within CTNNB1, thereby inhibiting the Wnt signaling (By similarity).

研究领域 (Research Area)

Signal Transduction

图片 (Image Data)



Western blot analysis of Phospho-beta Catenin (S33/S37) expression in (1) 293T cell lysate; (2) 293T cell lysate treated with calyculin A.

注意事项 (Note)

For research use only .