Catenin-β(Phospho-Tyr670) Antibody

Catalog No: #12114

Package Size: #12114-1 50ul #12114-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

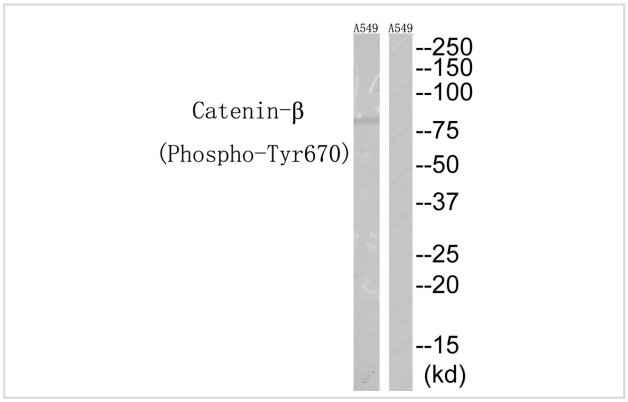
Description

Product Name	Catenin-β(Phospho-Tyr670) Antibody
Host Species	Rabbit
Clonality	Polyclonal
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 chromatogramphy using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of CTNNB1 only when phosphorylated at tyrosine 670.
Immunogen Type	peptide
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 670 (Q-W-Y(p)-K-K) derived from Human CTNNB1.
Target Name	Catenin-β
Modification	Phospho
Other Names	Beta-catenin; catenin (cadherin-associated protein); beta 1; 88kDa; Catenin beta-1; CTNB1; CTNNB; CTNNB1; DKFZp686D02253; FLJ25606; FLJ37923
Accession No.	Swiss-Prot#:P35222 ;NCBI Gene#:1499
Uniprot	P35222
GeneID	1499;
SDS-PAGE MW	85kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of extracts from A549 cells, using Catenin-β (Phospho-Tyr670) antibody #12114. The lane on the right is treated with the synthesized 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.

Note: This product is for in vitro research use only