

Catenin- β (Phospho-Tyr670) Antibody

Catalog No: #12114



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

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

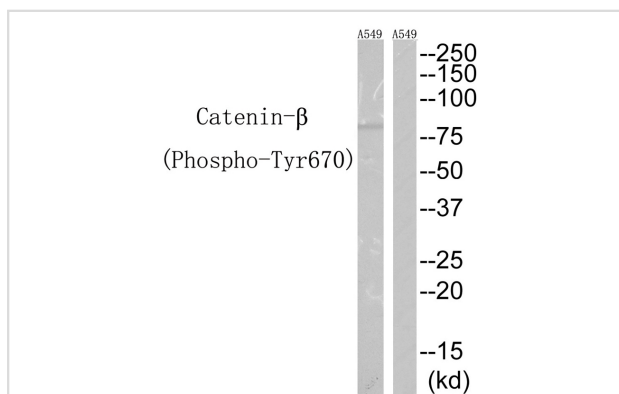
Description

| | |
|-----------------------|--|
| 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 chromatography 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 |
| SDS-PAGE MW | 85kd |
| Concentration | 1.0mg/ml |
| Formulation | Rabbit IgG 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 |

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 and is not intended for use in humans or animals.