

35-1340: Polyclonal Antibody to beta-catenin (phospho-Tyr333)

Clonality :	Polyclonal
Application :	IHC, WB
Reactivity :	Rat, Mouse, Human
Format :	Purified
Alternative Name :	CTNNB1, CATNB, CTNB1, CTNNB
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around phosphorylation site of tyrosine 333 (Y-T-Y(p)-E-K) derived from Human b-catenin

Description

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. Lillehoj E.P., Lu W., Kiser T., Goldblum S.E., Kim K.C. Biochim. Biophys. Acta 1773:1028-1038(2007)

Product Info

Amount :	50 µl / 100 µl
Content :	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 condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 92kd, Western blotting: 1:500~1:1000

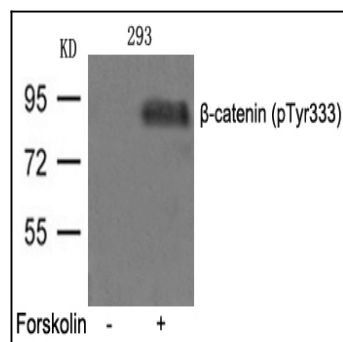


Figure 1: Western blot analysis of extracts from 293 cells untreated or treated with FSK using b-catenin(phospho-Tyr333) Antibody 35-1340 .

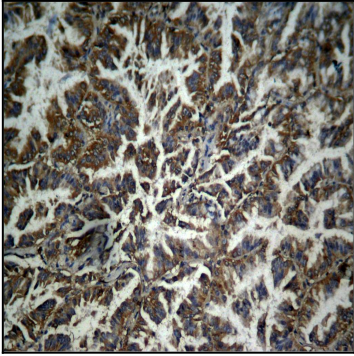


Figure 2: Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue, using β -catenin (phospho-Tyr333) Antibody 35-1340 .