

beta-catenin (Phospho-Ser715) Antibody

Catalog No: #11594

Package Size: #11594-1 50ul #11594-2 100ul

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

Description

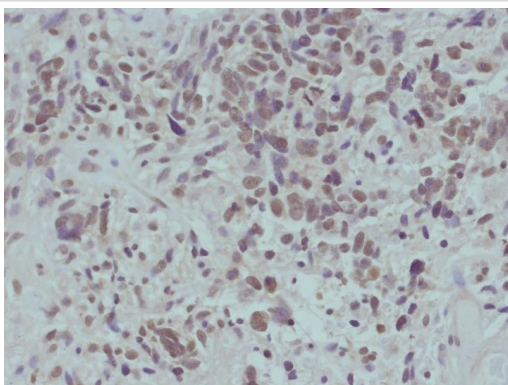
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|-----------------------|---|
| Product Name | beta-catenin (Phospho-Ser715) Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide. |
| Applications | WB IHC |
| Species Reactivity | Human;Mouse;Rat |
| Specificity | The antibody detects endogenous level of beta-catenin only when phosphorylated at serine 715. |
| Immunogen Type | Peptide-KLH |
| Immunogen Description | Peptide sequence around phosphorylation site of serine 715 (D-P-S(p)-Y-R) derived from Human beta-catenin. |
| Conjugates | Unconjugated |
| Target Name | beta-catenin |
| Modification | Phospho |
| Other Names | Catenin beta-1; CTNB1; CTNNB; CTNNB1 |
| Accession No. | Swiss-Prot: P35222NCBI Gene ID: 1499 |
| Target Species | Human |
| SDS-PAGE MW | 92kd |
| Concentration | 1.0mg/ml |
| Formulation | Supplied at 1.0mg/mL 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

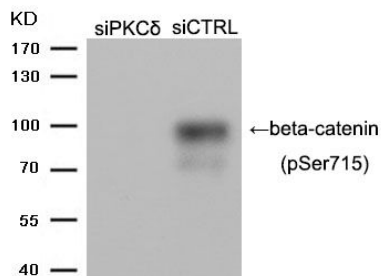
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Images



Immunohistochemical analysis of paraffin-embedded human primary glioblastoma multiforme (GBM) specimens using beta-catenin (Phospho-Ser715) Antibody #11594.



Western blot analysis of extract from U87 cells transfected with either PKCδ siRNA targeting or control siRNA were treated with Wnt3a (100 ng ml⁻¹) for 8 h. WB was performed with nuclear lysates of the cells with the beta-catenin (Phospho-Ser715) Antibody #11594.

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

Zhimin Lu, Jianfei Xue¹, Yaohui Chen, et al. et al., Tumour suppressor TRIM33 targets nuclear b-catenin degradation, NATURE COMMUNICATIONS, DOI: 10.1038/ncomms7156(2015)

[PMID:25639486](#)

et al., Tumour suppressor TRIM33 targets nuclear ε^o-Y-catenin degradation. In Nat Commun on 2015 Feb 2 by Jianfei Xue, Yaohui Chen et al.. PMID:25639486, (2015)

[PMID:25639486](#)

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