

## Anti-Phospho-CTNNB1 (Ser715) Polyclonal Antibody

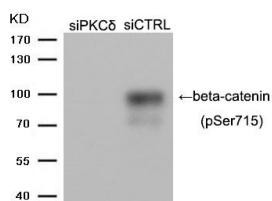
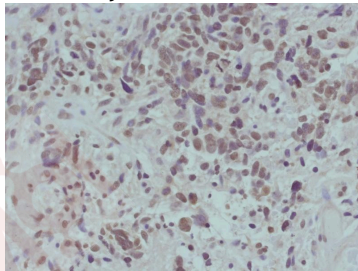
### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Actual: 92 kDa.
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

#### Verified Activity:

1. Immunohistochemical analysis of paraffin-embedded human primary glioblastoma multiforme (GBM) specimens using beta-catenin (Phospho-Ser715) Antibody TMAC-00428.
2. Western blot analysis of extract from U87 cells transfected with either PKCδ siRNA targeting or control siRNA were treated with Wnt3a (100 ng ml<sup>-1</sup>) for 8 h. WB was performed with nuclearlysates of the cells with the beta-catenin (Phospho-Ser715) Antibody TMAC-00428.



Application:	IHC,WB
Recommended	WB: 1:500-1000; IHC: 1:50-100

### Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	Peptide sequence around phosphorylation site of serine 715 (D-P-S(p)-Y-R) derived from Human beta-catenin
Antigen Species:	human
Uniprot ID:	P35222
Synonyms:	CTNNB1 (p-S715);p-CTNNB1 (S715);CTNNB1 (p-Ser715);p-CTNNB1 (Ser715)

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### Research 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

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