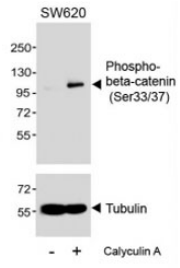
Phospho-beta-Catenin Antibody (pS33/37) (F53961)

Catalog No.	Formulation	Size
F53961-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F53961-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat, Bovine
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P35222
Applications	Western Blot : 1:500-1000
Limitations	This phospho-beta-Catenin antibody is available for research use only.



Western blot testing of extracts from SW620 cells, untreated or treated with Calyculin A, (100nM, 30min), with phospho-beta-Catenin antibody (pS33/37) at 1:1000.

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. Promotes neurogenesis by maintaining sympathetic neuroblasts within the cell cycle (By similarity).

This antibody complements our Beta-Catenin Antibody / CTNNB1 Antibody (clone CTNNB1/2030R) for broader analysis of CTNNB1 expression and localization.

Application Notes

Titration of the phospho-beta-Catenin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A synthetic peptide corresponding to amino acids surrounding pS33 and pS37 from the human protein was used as the immunogen for the phospho-beta-Catenin antibody.

Storage

Aliquot the phospho-beta-Catenin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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