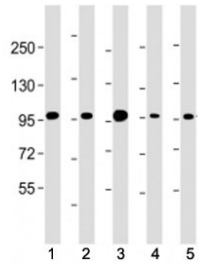
Beta Catenin Antibody (C-Terminal Region) [clone 691CT11.2.1] (F54099)

Catalog No.	Formulation	Size
F54099-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54099-0.05ML	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, Mouse, Rat, Monkey
Predicted Reactivity	Bovine
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	691CT11.2.1
Purity	Protein G purified
UniProt	P35222
Applications	Western Blot : 1:4000
Limitations	This Beta Catenin antibody is available for research use only.



Western blot testing of Beta Catenin antibody at 1:4000: Lane 1) human HEK293, 2) (h) HeLa, 3) monkey COS-7, 4) rat C6 and 5) mouse NIH3T3 cell lysate. Predicted molecular weight ~85 kDa, but routinely observed at 90-95 kDa.

Description

Beta Catenin / CTNNB1 is a 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 (PubMed:17524503, PubMed:18077326, PubMed:18086858, PubMed:18957423, PubMed:21262353, PubMed:22647378, PubMed:22699938, PubMed:22155184). Promotes neurogenesis by maintaining sympathetic neuroblasts within the cell cycle (By similarity). [UniProt]

Application Notes

The stated application concentrations are suggested starting points. Titration of the Beta Catenin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 687-721 from human Beta Catenin was used as the immunogen for the Beta Catenin antibody.

Storage

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

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