

Anti-Phospho-Beta Catenin (S33 + S37) Antibody [JE59-59]

HA721580



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Rat, Mouse
Applications:	WB
Molecular Wt:	Predicted band size: 85 kDa
Clone number:	JE59-59

Description: Catenin beta-1, also known as beta-catenin (β -catenin), is a protein that in humans is encoded by the CTNNB1 gene. Beta-catenin is a dual function protein, involved in regulation and coordination of cell-cell adhesion and gene transcription. In humans, the CTNNB1 protein is encoded by the CTNNB1 gene. In Drosophila, the homologous protein is called armadillo. β -catenin is a subunit of the cadherin protein complex and acts as an intracellular signal transducer in the Wnt signaling pathway. It is a member of the catenin protein family and homologous to γ -catenin, also known as plakoglobin. Beta-catenin is widely expressed in many tissues. In cardiac muscle, beta-catenin localizes to adherens junctions in intercalated disc structures, which are critical for electrical and mechanical coupling between adjacent cardiomyocytes. Mutations and overexpression of β -catenin are associated with many cancers, including hepatocellular carcinoma, colorectal carcinoma, lung cancer, malignant breast tumors, ovarian and endometrial cancer. Alterations in the localization and expression levels of beta-catenin have been associated with various forms of heart disease, including dilated cardiomyopathy. β -catenin is regulated and destroyed by the beta-catenin destruction complex, and in particular by the adenomatous polyposis coli (APC) protein, encoded by the tumour-suppressing APC gene. Therefore, genetic mutation of the APC gene is also strongly linked to cancers, and in particular colorectal cancer resulting from familial adenomatous polyposis (FAP).

Immunogen: Synthetic phosphopeptide corresponding to residues surrounding Ser33 and Ser37 of human β -catenin.

Positive control: 293T treated with 100nM Calyculin A for 15 minutes cell lysate, C6 treated with 100ng/mL Calyculin A for 1 hour cell lysate.

Subcellular location: Cytoplasm

Database links: SwissProt: P35222 Human | Q02248 Mouse | Q9WU82 Rat

Recommended Dilutions:

WB 1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn

Images

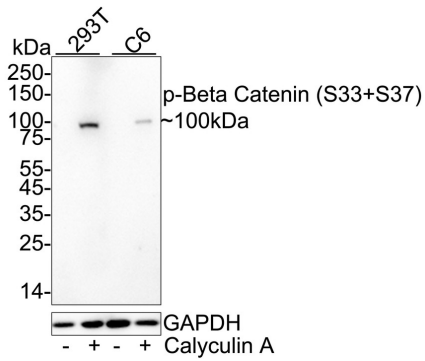


Fig1: Western blot analysis of Phospho-Beta Catenin (S33 + S37) on different lysates with Rabbit anti-Phospho-Beta Catenin (S33 + S37) antibody (HA721580) at 1/1,000 dilution.

Lane 1: 293T whole cell lysate

Lane 2: 293T treated with 100nM Calyculin A for 15 minutes cell lysate

Lane 3: C6 whole cell lysate

Lane 4: C6 treated with 100ng/mL Calyculin A for 1 hour cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 85 kDa

Observed band size: 100 kDa

Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721580) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Zhuang W et al. CTNNB1 in neurodevelopmental disorders. *Front Psychiatry*. 2023 Mar
2. Ledinek Ž et al. The Role of CTNNB1 in Endometrial Cancer. *Dis Markers*. 2022 Apr

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn