

Anti-Beta Catenin Antibody [SA30-04]

IRS043



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	mIHC
Molecular Wt:	Predicted band size: 85 kDa
Clone number:	SA30-04

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. 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 peptide within human Beta-Catenin aa 30-70.

Positive control: Human colon tissue, human pancreas tissue, human liver tissue.

Subcellular location: Cytoplasm, Nucleus, Cell membrane, Cell junction

Database links: SwissProt: P35222 Human

Recommended Dilutions:
mIHC 1:100

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°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

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Images

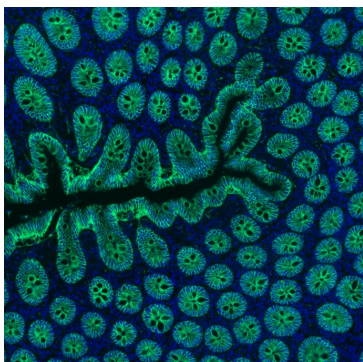


Fig1: mIHC analysis of human colon tissue (Formalin/PFA-fixed paraffin-embedded sections) with Rabbit anti-Beta Catenin antibody (IRS043) at 1/100 dilution. The immunostaining was performed with the IRISKit® HyperView mTSA Kit (MH900206). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95°C. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Olympus VS200 Slide Scanner.

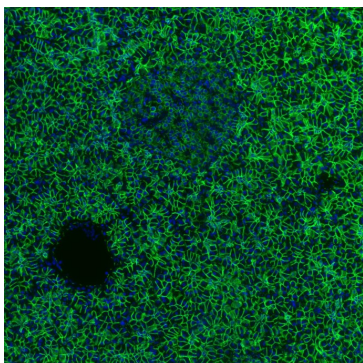


Fig2: mIHC analysis of human pancreas tissue (Formalin/PFA-fixed paraffin-embedded sections) with Rabbit anti-Beta Catenin antibody (IRS043) at 1/100 dilution. The immunostaining was performed with the IRISKit® HyperView mTSA Kit (MH900206). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95°C. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Olympus VS200 Slide Scanner.

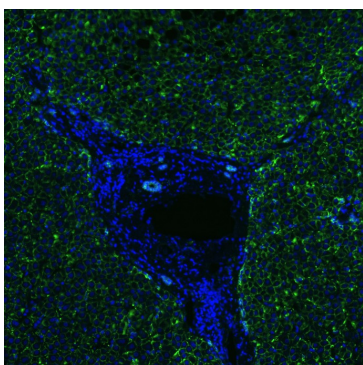


Fig3: mIHC analysis of human liver tissue (Formalin/PFA-fixed paraffin-embedded sections) with Rabbit anti-Beta Catenin antibody (IRS043) at 1/100 dilution. The immunostaining was performed with the IRISKit® HyperView mTSA Kit (MH900206). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95°C. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Olympus VS200 Slide Scanner.

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

Background References

1. "AlphaT-catenin: a novel tissue-specific beta-catenin-binding protein mediating strong cell-cell adhesion." Janssens B., Goossens S., Staes K., Gilbert B., van Hengel J., Colpaert C., Bruyneel E., Mareel M., van Roy F. J. Cell Sci. 114:3177-3188(2001).
2. "Characterisation of the phosphorylation of beta-catenin at the GSK-3 priming site Ser45." Hagen T., Vidal-Puig A. Biochem. Biophys. Res. Commun. 294:324-328(2002).

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