Anti-Axin2 Antibody [JM11-30]

ET1703-96

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 94 kDa
Clone number:	JM11-30

Description: b-catenin is a component of both the cadherin cell adhesion system and the Wnt signaling pathway. Wnt signaling increases the amount of b-catenin, by preventing its ubiquitination and degradation, allowing its direct interaction with transcription factors of the lymphoid enhancer factor-T cell factor family and modulation of gene expression. Axin is involved in the degradation of b-catenin by acting as a scaffold to form a complex between b-catenin, adenomatous polyposis coli (APC) and GSK-3b. APC, which is phosphorylated by GSK-3b, induces degradation of b-catenin, thus inhibiting Wnt signal transduction. Conductin is 45% identical to axin and appears to play a similar role to axin in the Wnt signaling pathway.

Immunogen: Synthetic peptide within Human Axin2 aa 55-93 / 843.

Positive control: HepG2 cell lysate, HeLa cell lysate, SW480 cell lysate, NIH/3T3 cell lysate, PC-12 cell lysate, human colon cancer tissue, mouse colon tissue.

Subcellular location: Cytoplasm.

Database links: SwissProt: Q9Y2T1 Human | O88566 Mouse | O70240 Rat

Recommended Dilutions:

WB	1:500-1:2,000
IHC-P	1:50

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

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

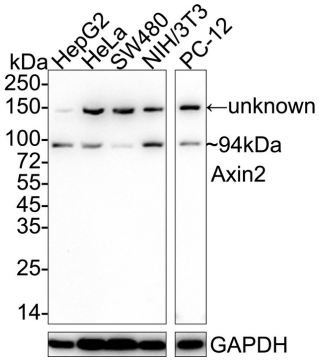

Fig1: Western blot analysis of Axin2 on different lysates with Rabbit anti-Axin2 antibody (ET1703-96) at 1/500 dilution.

Lane 1: HepG2 cell lysate (30 µg/Lane)
Lane 2: HeLa cell lysate (30 µg/Lane)
Lane 3: SW480 cell lysate (30 µg/Lane)
Lane 4: NIH/3T3 cell lysate (30 µg/Lane)
Lane 5: PC-12 cell lysate (30 µg/Lane)

Predicted band size: 94 kDa
Observed band size: 94 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 (ET1703-96) at 1/500 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

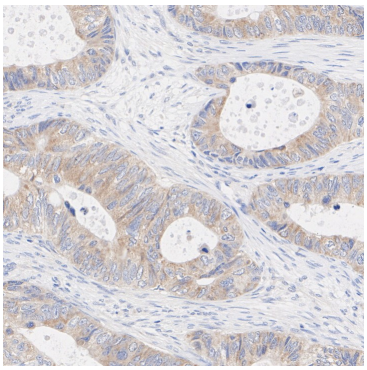

Fig2: Immunohistochemical analysis of paraffin-embedded human colon cancer tissue with Rabbit anti-Axin2 antibody (ET1703-96) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (ET1703-96) at 1/50 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

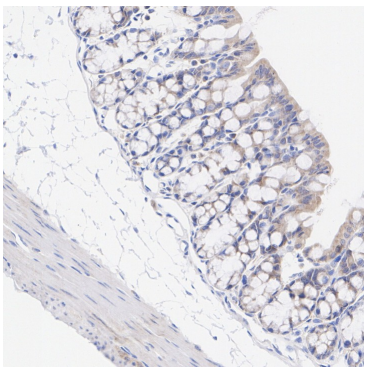

Fig3: Immunohistochemical analysis of paraffin-embedded mouse colon tissue with Rabbit anti-Axin2 antibody (ET1703-96) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (ET1703-96) at 1/50 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Background References

1. Ng OH et al. Deregulated WNT signaling in childhood T-cell acute lymphoblastic leukemia. Blood Cancer J 4:e192 (2014).
2. Winkler T et al. Wnt signaling activates Shh signaling in early postnatal intervertebral discs, and re-activates Shh signaling in old discs in the mouse. PLoS One 9:e98444 (2014).