

# Anti-Axin1 Antibody [PSH03-00] - BSA and Azide free

## HA750855



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IHC-P
<b>Molecular Wt:</b>	Predicted band size: 95.6 kDa
<b>Clone number:</b>	PSH03-00

**Description:** Axin1 (Axis inhibition protein 1) and Axin2 are multidomain scaffold proteins that negatively regulate Wnt signaling. Axin1 interacts with APC, GSK-3 $\beta$ , Dvl, and  $\beta$ -catenin and promotes the GSK-3 $\beta$ -mediated phosphorylation and subsequent degradation of  $\beta$ -catenin. Upon stimulation of cells with Wnt, Axin1 is recruited to the membrane by phosphorylated LRP5/6, a process that is believed to be crucial for activation of Wnt signaling. In addition to its role in the Wnt signaling pathway, Axin1 forms a complex with MEKK1 and activates c-Jun amino-terminal kinase (JNK/SAPK). Axin2 (also known as Conductin or Axil) can functionally substitute for Axin1 in mice. Axin2 itself is a direct target of the Wnt signaling pathway and therefore serves to control the duration and/or intensity of Wnt signaling through a negative feedback loop.

**Immunogen:** Synthetic peptide within Human Axin1 aa 1-400 / 862.

**Positive control:** SW480 cell lysate, HeLa cell lysate, 293T cell lysate, K-562 cell lysate, Huh7 cell lysate, human colon cancer tissue.

**Subcellular location:** Cytoplasm. Nucleus. Membrane. Cell membrane.

**Database links:** SwissProt: O15169 Human

**Recommended Dilutions:**

<b>WB</b>	1:2,000
<b>IHC-P</b>	1:500-1:2,000

**Storage Buffer:** 1\*PBS (pH7.4).

**Storage Instruction:** Store at +4 $^{\circ}$ C after thawing. Aliquot store at -20 $^{\circ}$ C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

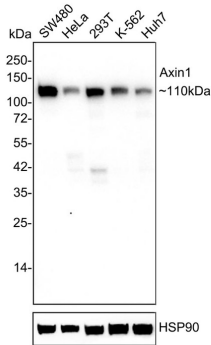
Service mail:support@huabio.cn

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## Images

**Fig1:** Western blot analysis of Axin1 on different lysates with Rabbit anti-Axin1 antibody (HA750855) at 1/2,000 dilution.

Lane 1: SW480 cell lysate (10 µg/Lane)  
 Lane 2: HeLa cell lysate (10 µg/Lane)  
 Lane 3: 293T cell lysate (10 µg/Lane)  
 Lane 4: K-562 cell lysate (10 µg/Lane)  
 Lane 5: Huh7 cell lysate (10 µg/Lane)



Predicted band size: 96 kDa  
 Observed band size: 110 kDa

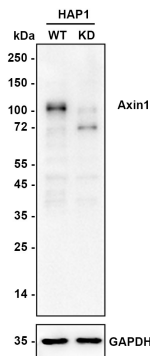
Exposure time: 3 minutes;

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 (HA750855) at 1/2,000 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.

**Fig2:** Western blot analysis of Axin1 on different lysates with Rabbit anti-Axin1 antibody (HA750855) at 1/2,000 dilution.

Lane 1: HAP1-parental cell lysate  
 Lane 2: HAP1-Axin1 KD cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 96 kDa  
 Observed band size: 110 kDa

Exposure time: 140 seconds; 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 (HA750855) at 1/2,000 dilution was used in K1803 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.

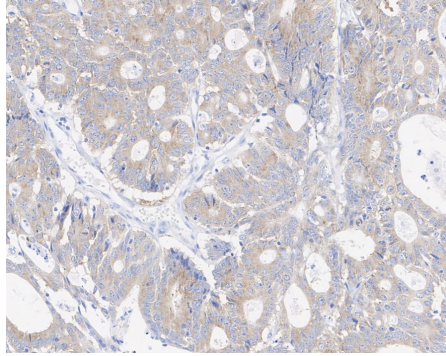
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**Fig3:** Immunohistochemical analysis of paraffin-embedded human colon cancer tissue with Rabbit anti-Axin1 antibody (HA750855) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA750855) at 1/2,000 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.

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

### Background References

1. Luo W, Lin SC. Axin: a master scaffold for multiple signaling pathways. *Neurosignals*. 2004 May-Jun;13(3):99-113.
2. Salahshor S, Woodgett JR. The links between axin and carcinogenesis. *J Clin Pathol*. 2005 Mar;58(3):225-36.
3. Mallick A, Gupta BP. AXIN-AMPK signaling: Implications for healthy aging. *F1000Res*. 2021 Dec 8;10:1259.

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