

For Research Use Only

# AXIN1 Polyclonal antibody

Catalog Number: 16541-1-AP

Featured Product

12 Publications



## Basic Information

**Catalog Number:**

16541-1-AP

**Size:**

600 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG9858

**GenBank Accession Number:**

BC044648

**GeneID (NCBI):**

8312

**UNIPROT ID:**

O15169

**Full Name:**

axin 1

**Calculated MW:**

826aa,92 kDa; 862aa,95 kDa

**Observed MW:**

100-110 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

human

**Cited Species:**

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : HT-1080 cells, HEK-293T cells, HeLa cells

IHC : human colon tissue,

## Background Information

Axis inhibition protein1 (AXIN1), also called AXIN, together with AXIN2 are multidomain scaffold proteins that negatively regulate Wnt signaling. AXIN1 is likely to function as a tumor suppressor. Under UV irradiation, AXIN1-HIPK2-TP53 complex forms. The complex also controls cell growth, apoptosis and development. Like AXIN2, AXIN1 undergoes poly(ADP-ribosylation) by tankyrase TNKS and TNKS2 followed by ubiquitination by RNF146 which leads to its degradation and subsequent activation of Wnt signaling. Its deubiquitination by USP34 is important for nuclear accumulation during Wnt signaling. Recent researches find that CircAXIN1 encodes a novel protein, AXIN1-295aa, which shows at around 40-55 kDa by Western Blot. AXIN1-295aa functions as an oncogenic protein, activating the Wnt signaling pathway to promote GC tumorigenesis and progression, suggesting a potential therapeutic target for GC. Proteintech's AXIN1 antibody 16541-1-AP is a rabbit polyclonal antibody raised against the N-terminus of human AXIN1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhihao Lv	36305172	Environ Toxicol	WB
Rui Zhang	34884759	Int J Mol Sci	WB
Dongsheng Ni	30825095	In Vitro Cell Dev Biol Anim	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

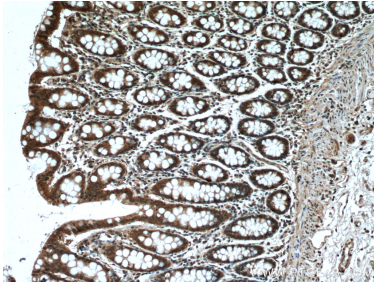
T: 4006900926

E: Proteintech-CN@ptglab.com

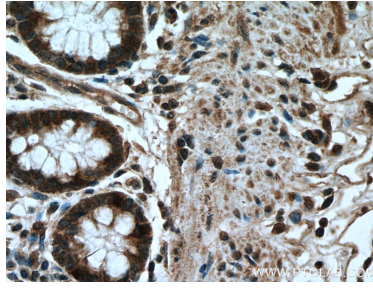
W: ptgcn.com

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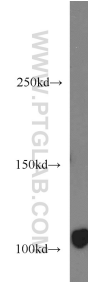
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 16541-1-AP (AXIN1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 16541-1-AP (AXIN1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



HT-1080 cells were subjected to SDS PAGE followed by western blot with 16541-1-AP (AXIN1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.