

For Research Use Only

AXIN1 Polyclonal antibody

Catalog Number: 16541-1-AP

Featured Product

17 Publications



Basic Information

Catalog Number:

16541-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 353 ug/ml by Bradford method using BSA as the standard;

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 1:1000-1:6000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IP

Species Specificity:

human

Cited Species:

human, rat, chicken

Positive Controls:

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

IHC: human colon tissue,

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

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

*** 20ul sizes contain 0.1% BSA

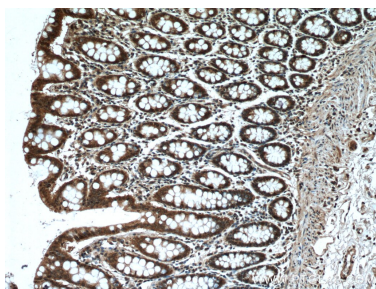
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

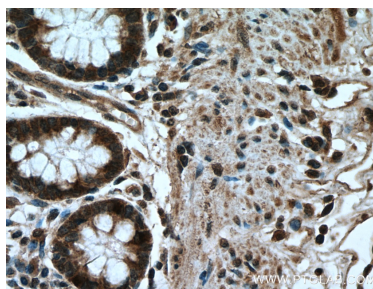
E: proteintech@ptglab.com
W: ptglab.com

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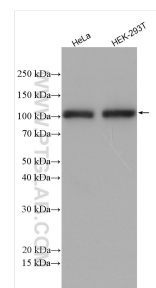
Selected Validation Data



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).



Various lysates were subjected to SDS PAGE followed by western blot with 16541-1-AP (AXIN1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.