

For Research Use Only

# AXIN1 Polyclonal antibody

Catalog Number: 16541-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 16541-1-AP	<b>GenBank Accession Number:</b> BC044648	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150UL, Concentration: 600 µg/ml by Nanodrop and 353 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8312	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> axin 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 826aa,92 kDa; 862aa,95 kDa	
<b>Immunogen Catalog Number:</b> AG9858	<b>Observed MW:</b> 100-110 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : HT-1080 cells, HEK-293T cells IHC : human colon tissue,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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-ribose)lation 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. 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
Dongsheng Ni	30825095	In Vitro Cell Dev Biol Anim	WB
Yazhou Cui	26763102	FEBS Lett	
Zha Lang L	23135750	Dig Dis Sci	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: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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## Selected Validation Data



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.