

For Research Use Only

AXIN1 Monoclonal antibody

Catalog Number: 68093-1-Ig



Basic Information

Catalog Number: 68093-1-Ig	GenBank Accession Number: BC044648	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 8312	CloneNo.: 1C4E8
Source: Mouse	Full Name: axin 1	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF 1:200-1:800
Isotype: IgG1	Calculated MW: 826aa,92 kDa; 862aa,95 kDa	
Immunogen Catalog Number: AG10079	Observed MW: 110-120 kDa	

Applications

Tested Applications:
FC, IF, IHC, WB, ELISA

Species Specificity:
Human, mouse, rat

**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: A431 cells, HSC-T6 cells, NIH/3T3 cells, MCF-7
cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat
cells, K-562 cells

IHC: mouse stomach tissue,

IF: A431 cells,

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. 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.

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**

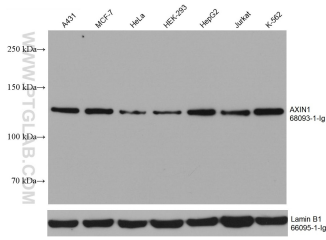
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
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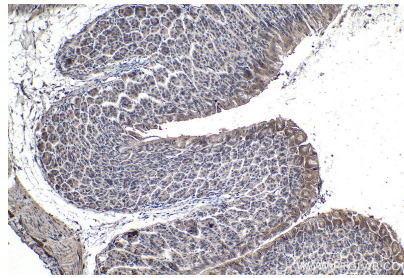
E: proteintech@ptglab.com
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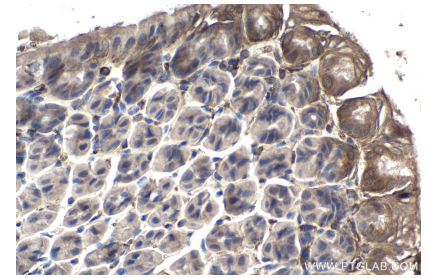
Selected Validation Data



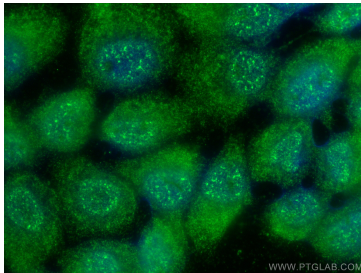
Various lysates were subjected to SDS PAGE followed by western blot with 68093-1-ig (AXIN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Lamin B1 Monoclonal antibody (66095-1-ig) as loading control.



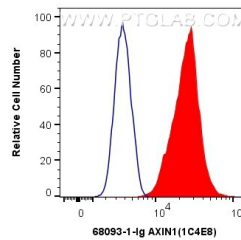
Immunohistochemical analysis of paraffin-embedded mouse stomach tissue slide using 68093-1-ig (AXIN1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse stomach tissue slide using 68093-1-ig (AXIN1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed A431 cells using AXIN1 antibody (68093-1-ig, Clone: 1C4E8) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1×10^6 A431 cells were intracellularly stained with 0.4 ug Anti-Human AXIN1 (68093-1-ig, Clone:1C4E8) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).