For Research Use Only

AXIN1 Monoclonal antibody

Catalog Number:68093-1-Ig 3 Publications

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Basic Information

Catalog Number:
68093-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG10079

GenBank Accession Number:
BC044648

GeneID (NCBI):
8312

UNIPROT ID:
O15169

Full Name:
axin 1

Calculated MW:
826aa,92 kDa; 862aa,95 kDa

Observed MW:
110-120 kDa

Purification Method:
Protein G purification

CloneNo.:
1C4E8

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:1000-1:4000
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

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 : 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/ICC : 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-ribosy)lation by tankyrase TNKS and TNKS2 followed by unbiquitination 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Lingling Chen	39617210	Biochem Pharmacol	WB,IF
Gaojian He	39353394	Int Immunopharmacol	WB
Wei-Liang Chen	39094883	Int J Biol Macromol	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:
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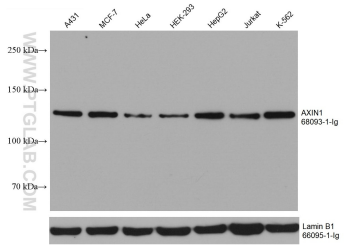
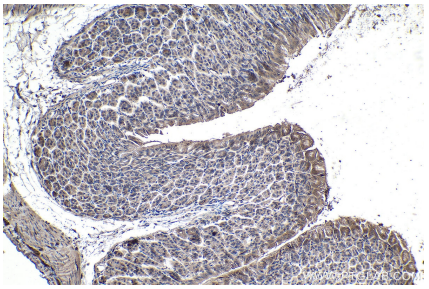
W: ptglab.com

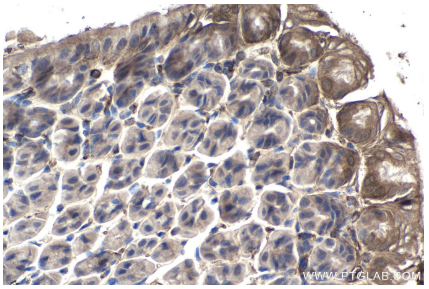
Selected Validation Data



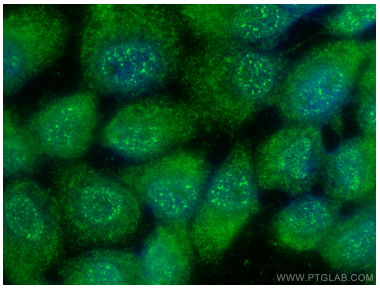
Various lysates were subjected to SDS PAGE followed by western blot with 68093-1-Ig (AXIN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Lamin B1 Monoclonal antibody (66095-1-Ig) as loading control.



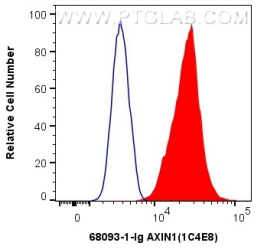
Immunohistochemical analysis of paraffin-embedded mouse stomach tissue slide using 68093-1-Ig (AXIN1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 Goat Anti-Mouse IgG(H+L).



1X10^6 A431 cells were intracellularly stained with 0.4 ug Anti-Human AXIN1 (68093-1-Ig, Clone:1C4E8) and CoraLite®488-Conjugated 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).