For Research Use Only

AXIN1 Monoclonal antibody, PBS Only

Catalog Number:68093-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
68093-1-PBS

Size:
1mg/ml

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

Applications

Tested Applications:
Indirect ELISA, IF/ICC, IHC, WB

Species Specificity:
rat, mouse, human

Background Information

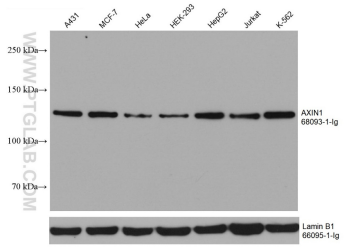
Axis inhibition protein1 (AXIN1), also called AXIN, together with AXIN2 are multidomain scaffold proteins that negatively regulate Wnt signaling. AXIN1 is likely to function as a tumor suppressor. Under UV irradiation, AXIN1-HIPK2-TP53 complex forms. The complex also controls cell growth, apoptosis and 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.

Storage

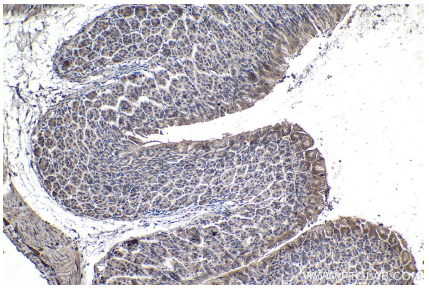
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

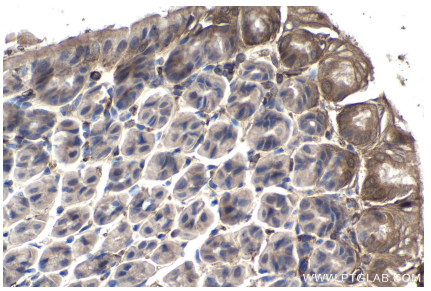
Selected Validation Data



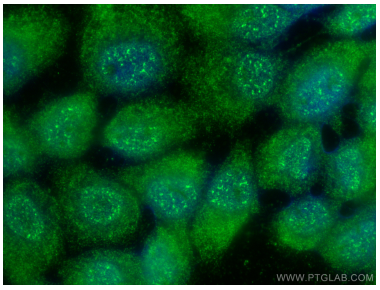
Various lysates were subjected to SDS PAGE followed by western blot with 68093-1-Ig (AXIN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Lamin B1 Monoclonal antibody (66095-1-Ig) as loading control. This data was developed using the same antibody clone with 68093-1-PBS in a different storage buffer formulation.



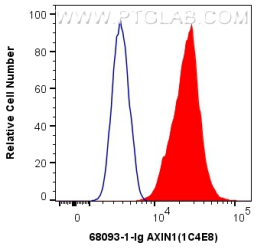
Immunohistochemical analysis of paraffin-embedded mouse stomach tissue slide using 68093-1-Ig (AXIN1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68093-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 68093-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 68093-1-PBS in a different storage buffer formulation.



1X10^6 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). This data was developed using the same antibody clone with 68093-1-PBS in a