

# AXIN1

Purified Mouse Monoclonal Antibody  
Catalog # AO2544a

## Product Information

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<b>Application</b>	WB, IHC, ICC, E
<b>Primary Accession</b>	<a href="#">O15169</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	4F10G1
<b>Isotype</b>	Mouse IgG1
<b>Calculated MW</b>	95635
<b>Immunogen</b>	Purified recombinant fragment of human 4F10G1 (AA: 546-752) expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide

## Additional Information

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<b>Gene ID</b>	8312
<b>Other Names</b>	AXIN; PPP1R49
<b>Dilution</b>	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	AXIN1 is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	AXIN1
<b>Synonyms</b>	AXIN
<b>Function</b>	Component of the beta-catenin destruction complex required for regulating CTNNB1 levels through phosphorylation and ubiquitination, and modulating Wnt-signaling (PubMed: <a href="#">12192039</a> , PubMed: <a href="#">27098453</a> , PubMed: <a href="#">28829046</a> ). Controls dorsoventral patterning via two opposing effects; down-regulates CTNNB1 to inhibit the Wnt signaling pathway and ventralize embryos, but also dorsalizes embryos by activating a Wnt-independent JNK signaling pathway (PubMed: <a href="#">12192039</a> ). In Wnt signaling, probably facilitates the

phosphorylation of CTNNB1 and APC by GSK3B (PubMed:[12192039](#)). Likely to function as a tumor suppressor. Enhances TGF-beta signaling by recruiting the RNF111 E3 ubiquitin ligase and promoting the degradation of inhibitory SMAD7 (PubMed:[16601693](#)). Also a component of the AXIN1- HIPK2-TP53 complex which controls cell growth, apoptosis and development (PubMed:[17210684](#)). Facilitates the phosphorylation of TP53 by HIPK2 upon ultraviolet irradiation (PubMed:[17210684](#)).

## Cellular Location

Cytoplasm. Nucleus. Membrane {ECO:0000250|UniProtKB:O35625} Cell membrane {ECO:0000250|UniProtKB:O35625}. Note=MACF1 is required for its translocation to cell membrane (By similarity). On UV irradiation, translocates to the nucleus and colocalizes with DAAX (PubMed:17210684). {ECO:0000250|UniProtKB:O35625, ECO:0000269|PubMed:17210684}

## Tissue Location

Ubiquitously expressed.

## References

1.Cancer Lett. 2014 Dec 1;355(1):1-8.2.BMC Cancer. 2013 Aug 2;13:368.

## Images

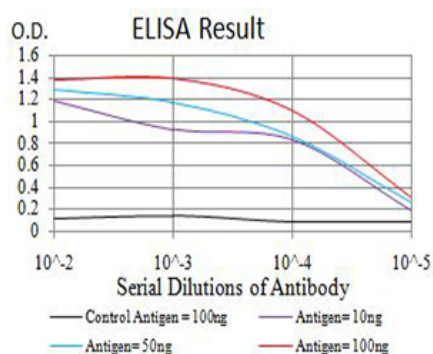


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

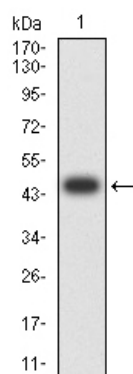
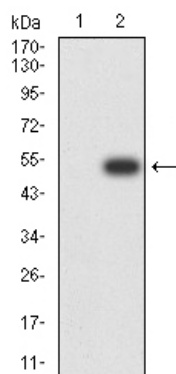


Figure 2:Western blot analysis using AXIN1 mAb against human AXIN1 (AA: 546-752) recombinant protein. (Expected MW is 48.7 kDa)

Figure 3:Western blot analysis using AXIN1 mAb against HEK293 (1) and AXIN1 (AA: 546-752)-hIgGfc transfected HEK293 (2) cell lysate.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.