

**AXIN1**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2544a****Specification**

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**AXIN1 - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | <b>E, WB</b>           |
| Primary Accession | <a href="#">O15169</a> |
| Reactivity        | <b>Human</b>           |
| Host              | <b>Mouse</b>           |
| Clonality         | <b>Monoclonal</b>      |
| Isotype           | <b>Mouse IgG1</b>      |
| Calculated MW     | <b>95.6kDa KDa</b>     |

**Immunogen**

Purified recombinant fragment of human 4F10G1 (AA: 546-752) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**AXIN1 - Additional Information**

**Gene ID** 8312

**Other Names**

AXIN; PPP1R49

**Dilution**

E~~ 1/10000

WB~~ 1/500 - 1/2000

**Storage**

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.

**Precautions**

AXIN1 is for research use only and not for use in diagnostic or therapeutic procedures.

**AXIN1 - Protein Information**

**Name** AXIN1

**Synonyms** AXIN

**Function**

Component of the beta-catenin destruction complex required for regulating CTNNB1 levels through phosphorylation and ubiquitination, and modulating Wnt-signaling (PubMed:<a href="http://www.uniprot.org/citations/12192039" target="\_blank">12192039</a>, PubMed:<a

href="http://www.uniprot.org/citations/27098453" target="\_blank">27098453</a>, PubMed:<a href="http://www.uniprot.org/citations/28829046" target="\_blank">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="http://www.uniprot.org/citations/12192039" target="\_blank">12192039</a>). In Wnt signaling, probably facilitates the phosphorylation of CTNNB1 and APC by GSK3B (PubMed:<a href="http://www.uniprot.org/citations/12192039" target="\_blank">12192039</a>). 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:<a href="http://www.uniprot.org/citations/16601693" target="\_blank">16601693</a>). Also a component of the AXIN1- HIPK2-TP53 complex which controls cell growth, apoptosis and development (PubMed:<a href="http://www.uniprot.org/citations/17210684" target="\_blank">17210684</a>). Facilitates the phosphorylation of TP53 by HIPK2 upon ultraviolet irradiation (PubMed:<a href="http://www.uniprot.org/citations/17210684" target="\_blank">17210684</a>).

### 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.

### AXIN1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### AXIN1 - Images

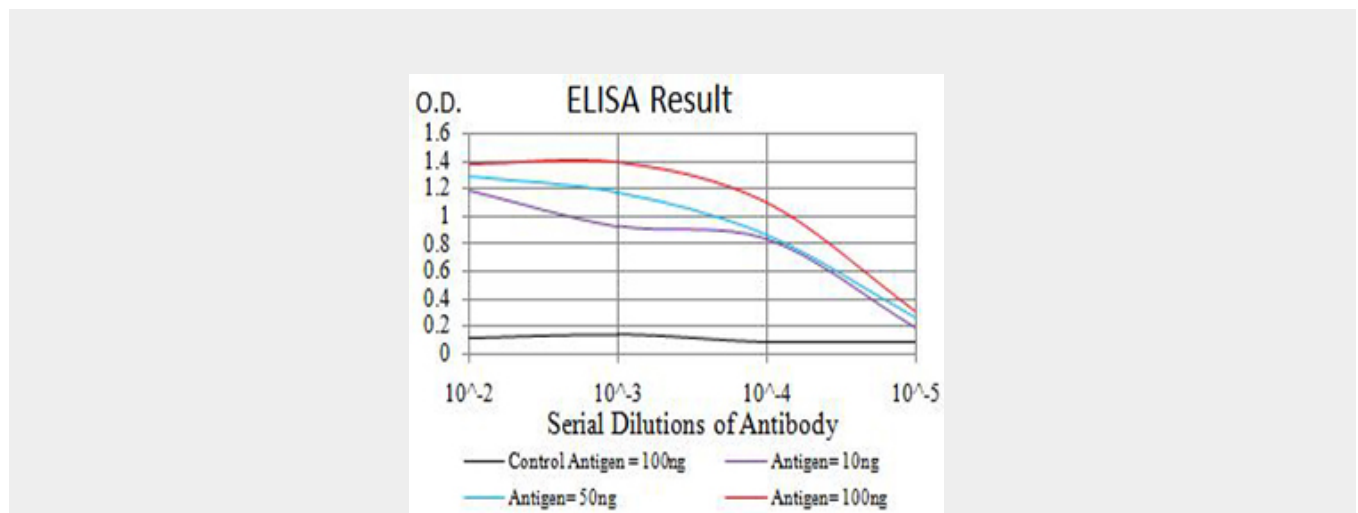


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

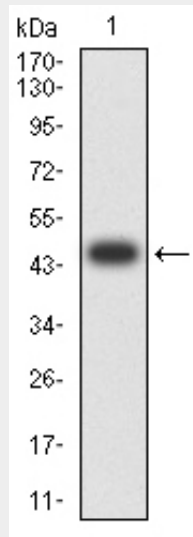


Figure 2: Western blot analysis using AXIN1 mAb against human AXIN1 (AA: 546-752) recombinant protein. (Expected MW is 48.7 kDa)

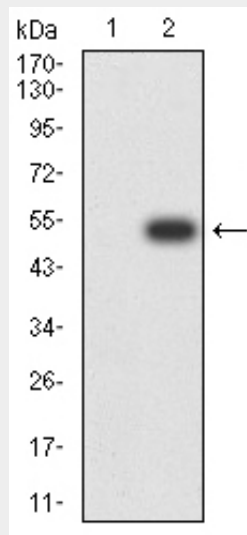


Figure 3: Western blot analysis using AXIN1 mAb against HEK293 (1) and AXIN1 (AA: 546-752)-hlgGfc transfected HEK293 (2) cell lysate.

**AXIN1 - References**

1. Cancer Lett. 2014 Dec 1;355(1):1-8. 2. BMC Cancer. 2013 Aug 2;13:368.