

**AXIN1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17201c**

**Specification**

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**AXIN1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O15169</a>
Other Accession	<a href="#">O70239</a> , <a href="#">O35625</a> , <a href="#">NP_003493.1</a> , <a href="#">NP_851393.1</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	95635
Antigen Region	330-359

**AXIN1 Antibody (Center) - Additional Information**

**Gene ID** 8312

**Other Names**

Axin-1, Axis inhibition protein 1, hAxin, AXIN1, AXIN

**Target/Specificity**

This AXIN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 330-359 amino acids from the Central region of human AXIN1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

AXIN1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**AXIN1 Antibody (Center) - 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:[12192039](#), PubMed:[27098453](#), PubMed:[28829046](#)). 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:[12192039](#)). 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

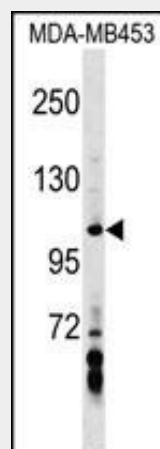
Ubiquitously expressed.

### AXIN1 Antibody (Center) - 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 Antibody (Center) - Images



AXIN1 Antibody (Center) (Cat. #AP17201c) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the AXIN1 antibody detected the AXIN1 protein (arrow).

### AXIN1 Antibody (Center) - Background

This gene encodes a cytoplasmic protein which contains a regulation of G-protein signaling (RGS) domain and a dishevelled and axin (DIX) domain. The encoded protein interacts with adenomatous polyposis coli, catenin beta-1, glycogen synthase kinase 3 beta, protein phosphate 2, and itself. This protein functions as a negative regulator of the wingless-type MMTV integration site family, member 1 (WNT) signaling pathway and can induce apoptosis. The crystal structure of a portion of this protein, alone and in a complex with other proteins, has been resolved. Mutations in this gene have been associated with hepatocellular carcinoma, hepatoblastomas, ovarian endometrioid adenocarcinomas, and medullablastomas. Two transcript variants encoding distinct isoforms have been identified for this gene.

#### **AXIN1 Antibody (Center) - References**

Sue Ng, S., et al. Biol. Chem. 391 (2-3), 171-180 (2010) :  
Yang, L.H., et al. Mol. Cancer 9, 25 (2010) :  
Wooten, E.C., et al. PLoS ONE 5 (1), E8830 (2010) :  
Kameoka, M., et al. AIDS Res. Hum. Retroviruses 25(10):1005-1011(2009)  
Li, Q., et al. Nat. Cell Biol. 11(9):1128-1134(2009)