10320 Camino Santa Fe, Suite G
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AXIN1 / Axin-1 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS17194

Specification

AXIN1 / Axin-1 Antibody (C-Terminus) - Product Information

Application	**IHC-P, WB**
Primary Accession	O15169
Other Accession	8312
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**95635**

AXIN1 / Axin-1 Antibody (C-Terminus) - Additional Information

Gene ID 8312

Other Names
AXIN1, Axis inhibitor 1, AXIN, Axin 1, Axis inhibition protein 1, Fused, mouse, homolog of, HAxin, PPP1R49, Axin-1

Target/Specificity
Human AXIN

Reconstitution & Storage
PBS, pH 7.0, 10% glycerol, 0.01% Thimerosal. Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Precautions
AXIN1 / Axin-1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

AXIN1 / Axin-1 Antibody (C-Terminus) - 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.

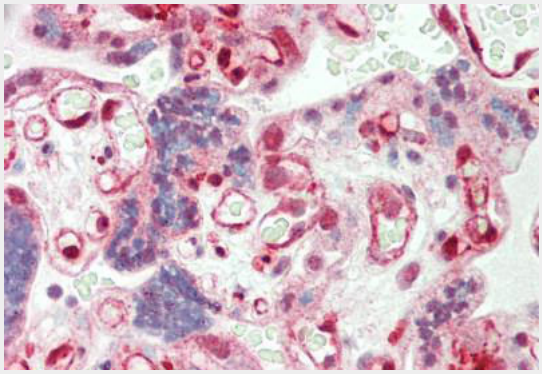
Volume
50 µl

AXIN1 / Axin-1 Antibody (C-Terminus) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AXIN1 / Axin-1 Antibody (C-Terminus) - Images



Human Placenta: Formalin-Fixed, Paraffin-Embedded (FFPE)

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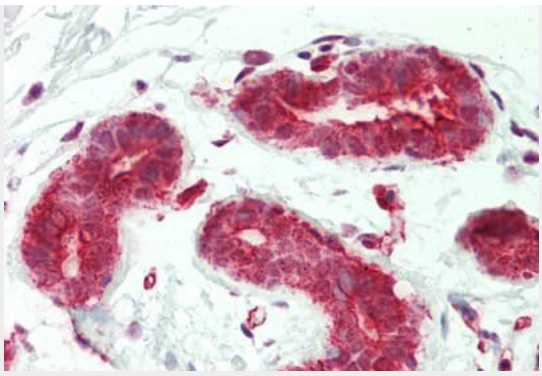
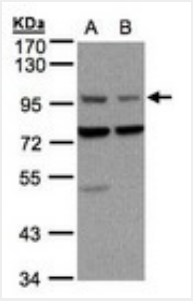


Human Breast: Formalin-Fixed, Paraffin-Embedded (FFPE)



Sample (30 ug of whole cell lysate).

AXIN1 / Axin-1 Antibody (C-Terminus) - Background

Component of the beta-catenin destruction complex required for regulating CTNNB1 levels through phosphorylation and ubiquitination, and modulating Wnt-signaling. 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. In Wnt signaling, probably facilitates the phosphorylation of CTNNB1 and APC by GSK3B. Likely to function as a tumor suppressor. Facilitates the phosphorylation of TP53 by HIPK2 upon ultraviolet irradiation. Enhances TGF-beta signaling by recruiting the RNF111 E3 ubiquitin ligase and promoting the degradation of inhibitory SMAD7. Also component of the AXIN1-HIPK2-TP53 complex which controls cell growth, apoptosis and development.

AXIN1 / Axin-1 Antibody (C-Terminus) - References

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