10320 Camino Santa Fe, Suite G
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AXIN1 / Axin-1 Antibody (C-Terminus)

Rabbit Polyclonal Antibody

Catalog # ALS14710

Specification

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

Application	IF
Primary Accession	O15169
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	96kDa KDa

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

Gene ID 8312

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

Target/Specificity
Human AXIN1.

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

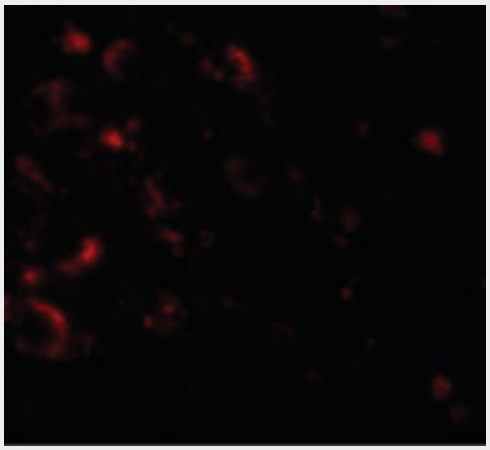
Precautions
AXIN1 / Axin-1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

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:<a href="http://www.uniprot.org/citations/12192039"



Immunofluorescence of AXIN1 in human brain tissue with AXIN1 antibody at 20 ug/ml.

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

Zeng L.,et al.Cell 90:181-192(1997).

target="_blank">12192039, PubMed:27098453). 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 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

Daniels R.J.,et al.Hum. Mol. Genet. 10:339-352(2001).
Martin J.,et al.Nature 432:988-994(2004).
Hsu W.,et al.J. Biol. Chem. 274:3439-3445(1999).
Satoh S.,et al.Nat. Genet. 24:245-250(2000).

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

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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