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Store at -20C
#2074

Axin1 (C95H11) Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP, IHC-P	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit	UniProt ID: #O15169	Entrez-Gene Id: 8312
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Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #44419.

Specificity/Sensitivity

Axin1 (C95H11) Rabbit mAb detects the endogenous levels of total Axin1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant protein of human Axin1.

Background

Axin1 (Axis inhibition protein 1) and Axin2 are multidomain scaffold proteins that negatively regulate Wnt signaling. Axin1 interacts with APC, GSK-3β, Dvl, and β-catenin and promotes the GSK-3β-mediated phosphorylation and subsequent degradation of β-catenin (1,2). Upon stimulation of cells with Wnt, Axin1 is recruited to the membrane by phosphorylated LRP5/6, a process that is believed to be crucial for activation of Wnt signaling (3,4). In addition to its role in the Wnt signaling pathway, Axin1 forms a complex with MEKK1 and activates c-Jun amino-terminal kinase (JNK/SAPK) (5). Axin2 (also known as Conductin or Axil) can functionally substitute for Axin1 in mice (6). Axin2 itself is a direct target of the Wnt signaling pathway and therefore serves to control the duration and/or intensity of Wnt signaling through a negative feedback loop (7-9).

Background References

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- Salahshor, S. and Woodgett, J.R. (2005) *J. Clin. Pathol.* 58, 225-236.
- Zeng, X. et al. (2005) *Nature* 438, 873-877.
- Davidson, G. et al. (2005) *Nature* 438, 867-872.
- Zhang, Y. et al. (1999) *J. Biol. Chem.* 274, 35247-35254.
- Chia, I.V. and Costantini, F. (2005) *Mol. Cell Biol.* 25, 4371-4376.
- Jho, E.H. et al. (2002) *Mol. Cell Biol.* 22, 1172-1183.
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- Leung, J.Y. et al. (2002) *J. Biol. Chem.* 277, 21657-21665.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human **Mk:** Monkey

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