



**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C  
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## Axin1 (C7B12) Rabbit mAb

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

<b>Applications:</b> W, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 110	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O15169	<b>Entrez-Gene Id:</b> 8312
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
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.

### Specificity/Sensitivity

Axin1 (C7B12) Rabbit mAb detects endogenous levels of total Axin1 protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant protein consisting of the N-terminal region 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 MEK1 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.
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- Davidson, G. et al. (2005) *Nature* 438, 867-872.
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- Chia, I.V. and Costantini, F. (2005) *Mol. Cell Biol.* 25, 4371-4376.
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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

### Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat

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