

#5863 Store at -20°C

## Axin2 (D48G4) Rabbit mAb


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	95, 98	Rabbit IgG	#Q9Y2T1	8313

### Product Usage Information

#### Application

 Western Blotting  
Immunoprecipitation

#### Dilution

 1:1000  
1:200

### 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

Axin2 (D48G4) Rabbit mAb detects endogenous levels of total Axin2 protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro566 of human Axin2 protein.

### 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

1. Luo, W. and Lin, S.C. *Neurosignals* 13, 99-113.
2. Salahshor, S. and Woodgett, J.R. (2005) *J. Clin. Pathol.* 58, 225-236.
3. Zeng, X. et al. (2005) *Nature* 438, 873-877.
4. Davidson, G. et al. (2005) *Nature* 438, 867-872.
5. Zhang, Y. et al. (1999) *J. Biol. Chem.* 274, 35247-35254.
6. Chia, I.V. and Costantini, F. (2005) *Mol. Cell Biol.* 25, 4371-4376.
7. Jho, E.H. et al. (2002) *Mol. Cell Biol.* 22, 1172-1183.
8. Lustig, B. et al. (2002) *Mol. Cell Biol.* 22, 1184-1193.
9. 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting **IP:** Immunoprecipitation

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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