



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

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#3218

Dvl3 Antibody

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

Applications: W, IP	Reactivity: H M R Hm Mk Mi B	Sensitivity: Endogenous	MW (kDa): 88 to 93	Source/Isotype: Rabbit	UniProt ID: #Q92997	Entrez-Gene Id: 1857
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

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

Specificity/Sensitivity

Dvl3 Antibody detects endogenous levels of total Dvl3 protein. This antibody does not cross-react with Dvl2.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the carboxy terminus of human Dvl3. The antibodies are purified by protein A and peptide affinity chromatography.

Background

Dishevelled (Dsh) proteins are important intermediates of Wnt signaling pathways. Dsh inhibits glycogen synthase kinase-3 β promoting β -catenin stabilization. Dsh proteins also participate in the planar cell polarity pathway by acting through JNK (1,2). There are three Dsh homologs, Dvl1, Dvl2 and Dvl3 in mammals. Upon treatment with Wnt proteins, Dvls become hyperphosphorylated (3) and accumulate in the nucleus (4). Dvl proteins also associate with actin fibers and cytoplasmic vesicular membranes (5) and mediate endocytosis of the Fzd receptor after Wnt protein stimulation (6). Overexpression of Dvl has been reported in certain cancers (7,8).

Background References

1. Logan, C.Y. and Nusse, R. (2004) *Annu. Rev. Cell Dev. Biol.* 20, 781-810.
2. Boutros, M. and Mlodzik, M. (1999) *Mech. Dev.* 83, 27-37.
3. Lee, J.S. et al. (1999) *J. Biol. Chem.* 274, 21464-70.
4. Itoh, K. et al. (2005) *J. Biol. Chem.* 280, 313-317.
5. Capelluto, D.G. et al. (2002) *Nature* 419, 726-729.
6. Chen, W. et al. (2003) *Science* 301, 1391-1394.
7. Okino, K. et al. (2003) *Oncol. Rep.* 10, 1219-1223.
8. Uematsu, K. et al. (2003) *Oncogene* 22, 7218-7221.

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 **Hm:** Hamster **Mk:** Monkey **Mi:** Mink **B:** Bovine

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