Mammalian homologs of the *Drosophila* dishevelled (Dsh) gene have been identified, including Dvl-1, Dvl-2 and Dvl-3. The mammalian dishevelled proteins contain three homologous domains, two of which are unrelated to any other known protein. The third region is homologous to the discs-large homology domain of *Drosophila* discs-large-1, a tumor suppressor protein. Like their *Drosophila* counterpart, the dishevelled proteins are thought to be involved in embryogenesis. Overexpression of Dvl-1 has been shown to inhibit the phosphorylation of Tau by GSK-3β. This finding may prove to be important in Alzheimer's studies, which have shown that Tau is hyperphosphorylated. In *Drosophila*, Dsh is a component of the frizzled signaling pathway. Both mammalian dishevelled and frizzled proteins are components of the Wnt signaling pathway.

### REFERENCES


### SOURCE

Dvl (B-4) is a mouse monoclonal antibody raised against amino acids 21-280 mapping near the N-terminus of Dvl-1 of human origin.

### PRODUCT

Each vial contains 200 µg IgG; kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Dvl (B-4) is available conjugated to agarose (sc-166303 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166303 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-166303 PE), fluorescein (sc-166303 FITC), Alexa Fluor® 488 (sc-166303 AF488), Alexa Fluor® 546 (sc-166303 AF546), Alexa Fluor® 594 (sc-166303 AF594) or Alexa Fluor® 647 (sc-166303 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-166303 AF680) or Alexa Fluor® 790 (sc-166303 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

### RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker); sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminal Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

### DATA

Dvl (B-4): sc-166303. Western blot analysis of Dvl-3 expression in non-transfected: sc-110760 (A) and mouse Dvl-3 transfected: sc-178541 (B) 293 whole cell lysates.

Dvl (B-4): sc-166303. Western blot analysis of Dvl expression in HeLa whole cell lysate.

### SELECT PRODUCT CITATIONS


### STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

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