SANTA CRUZ BIOTECHNOLOGY, INC.

Dvl-3 (h): 293T Lysate: sc-114825



BACKGROUND

Mammalian homologs of the Drosophila dishevelled (Dsh) gene have been identified, including DvI-1, DvI-2 and DvI-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 DvI-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 signalling pathway.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DVL3 (human) mapping to 3q27.1.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

DvI-3 (h): 293T Lysate represents a lysate of human DvI-3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Dvl-3 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive DvI-3 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Dvl-3 (G-7): sc-271295 is recommended as a positive control antibody for Western Blot analysis of enhanced human DvI-3 expression in DvI-3 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lqGk BP-HRP: sc-516102 or m-lqGk 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 Luminol Reagent: sc-2048.

DATA





DvI-3 (G-7): sc-271295. Western blot analysis of DvI-3 expression in non-transfected: sc-117752 (A) and human Dvl-3 transfected: sc-114825 (B) 293T whole cell lysates

Simultaneous direct near-infrared western blot analysis of DvI-3 expression, detected with DvI-3 (4D3) Alexa Fluor® 680: sc-8027 AF680 and GAPDH expression. detected with GAPDH (G-9) Alexa Fluor® 790: sc-365062 AF790 in non-transfected: sc-117752 (A) and human Dyl-3 transfected: sc-114825 (B) 293T whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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