

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Dishevelled-1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) DVL-2 and rhDVL-3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Dishevelled-1 Arg150-Leu215 Accession # O14640
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Dishevelled-1
Immunohistochemistry	5-15 µg/mL	Immersion fixed paraffin-embedded sections of human skeletal muscle

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

DVL-1 (Dishevelled-1) is a cytoplasmic phosphoprotein that is one of the three human orthologs of the *Drosophila* dishevelled segment polarity protein. Human DVL-1 is expressed in multiple tissues where it participates in Wnt signal transduction. DVL-1 is a modular protein containing DIX, PDZ and DEP linker regions that connect Wnt/Frizzled engagement to proteins involved in the inactivation of β-catenin destruction in the Wnt canonical pathway. Human DVL-1 shows 93% aa identity with mouse and rat DVL-1 over the sequence used for immunization. Three shorter isoforms have been described, but it is unclear whether these are actually expressed.