10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

DVL2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP14900b

Specification

DVL2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession O14641

DVL2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 1856

Other Names
Segment polarity protein dishevelled homolog DVL-2, Dishevelled-2, DSH homolog 2, DVL2

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DVL2 Antibody (C-term) Blocking Peptide - Protein Information

Name DVL2

Function
Plays a role in the signal transduction pathways mediated by multiple Wnt genes. Participates both in canonical and non-canonical Wnt signaling by binding to the cytoplasmic C-terminus of frizzled family members and transducing the Wnt signal to down-stream effectors. Promotes internalization and degradation of frizzled proteins upon Wnt signaling.

DVL2 Antibody (C-term) Blocking Peptide - Background

This gene encodes a member of the dishevelled (dsh)protein family. The vertebrate dsh proteins have approximately 40%amino acid sequence similarity with Drosophila dsh. This geneencodes a 90-kD protein that undergoes posttranslationalphosphorylation to form a 95-kD cytoplasmic protein, which may playa role in the signal transduction pathway mediated by multiple Wntproteins. The mechanisms of dishevelled function in Wnt signalingare likely to be conserved among metazoans.

DVL2 Antibody (C-term) Blocking Peptide - References

Inkster, B., et al. Neuroimage 53(3):908-917(2010)Kikuchi, K., et al. EMBO J. 29(20):3470-3483(2010)Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Gao, C., et al. Nat. Cell Biol. 12(8):781-790(2010)Gnad, T., et al. Mol. Cancer 9, 31 (2010) :

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q60838}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q60838}; Cytoplasmic side {ECO:0000250|UniProtKB:Q60838}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q60838}. Cytoplasmic vesicle {ECO:0000250|UniProtKB:Q60838}. Nucleus Note=Localizes at the cell membrane upon interaction with frizzled family members and promotes their internalization. Localizes to cytoplasmic puncta (By similarity). Interaction with FOXK1 and FOXK2 induces nuclear translocation (PubMed:25805136) {ECO:0000250|UniProtKB:Q60838, ECO:0000269|PubMed:25805136}

DVL2 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides