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DVL1 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP12326c

Specification

DVL1 Antibody (Center) Blocking peptide - Product Information

Primary Accession O14640

DVL1 Antibody (Center) Blocking peptide - Additional Information

Gene ID 1855

Other Names
Segment polarity protein dishevelled homolog DVL-1, Dishevelled-1, DSH homolog 1, DVL1

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.

DVL1 Antibody (Center) Blocking peptide - Protein Information

Name DVL1

Function
Participates in Wnt signaling by binding to the cytoplasmic C-terminus of frizzled family members and transducing the Wnt signal to down-stream effectors. Plays a role both in canonical and non-canonical Wnt signaling. Plays a role in the signal transduction pathways mediated by multiple Wnt genes. Required for LEF1 activation upon WNT1 and WNT3A signaling. DVL1 and PAK1 form a ternary complex with MUSK which is important for MUSK-dependent regulation of AChR clustering during the formation of the neuromuscular junction (NMJ).

Cellular Location
Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytosol. Cytoplasmic vesicle Note=Localizes at the cell membrane upon interaction with frizzled family members.

DVL1 Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

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DVL1 Antibody (Center) Blocking peptide - Images

DVL1 Antibody (Center) Blocking peptide - Background

DVL1, the human homolog of the Drosophila dishevelled gene(dsh) encodes a cytoplasmic phosphoprotein that regulates cellproliferation, acting as a transducer molecule for developmentalprocesses, including segmentation and neuroblast specification.DVL1 is a candidate gene for neuroblastomatous transformation. TheSchwartz-Jampel syndrome and Charcot-Marie-Tooth disease type 2Ahave been mapped to the same region as DVL1. The phenotypes ofthese diseases may be consistent with defects which might beexpected from aberrant expression of a DVL gene during development.

DVL1 Antibody (Center) Blocking peptide - References

Metcalfe, C., et al. J. Cell. Sci. 123 (PT 9), 1588-1599 (2010) :Hu, T., et al. J. Biol. Chem. 285(18):13561-13568(2010)Varelas, X., et al. Dev. Cell 18(4):579-591(2010)Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :Guo, J., et al. PLoS ONE 4 (11), E7982 (2009) :