DVL2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	DVL2, Blocking Peptide
Full Product Name	DVL2 Blocking Peptide
Product Gene Name	DVL2 blocking peptide
Product Synonym Names	Dishevelled 2 (homologous to Drosophila dsh); Dishevelled dsh homolog 2; dishevelled segment polarity protein 2; Dishevelled-2; Dishevelled2; DSH homolog 2; DVL 2; Dvl2; DVL2_HUMAN; Segment polarity protein dishevelled homolog DVL 2; Segment polarity protein dishevelled homolog DVL-2; Segment polarity protein dishevelled homolog DVL2
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	DVL2 peptide (MBS9624625) is used for blocking the activity of DVL2 antibody (MBS9605908)
Molecular Weight	78,948 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (7128661..7137863, complement). Location: 17p13.1
OMIM	602151
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for DVL2 blocking peptide	Blocking/Control
Related Product Information for DVL2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of DVL2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DVL2 purchase	MBS9624625 is a blocking peptide targeting DVL2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DVL2. It may not necessarily be applicable to this product.

NCBI GI #	4758216
NCBI GeneID	1856
NCBI Accession #	NP_004413.1

UniProt Primary Accession #	O14641
UniProt Secondary Accession #	Q53XM0; D3DTN3
UniProt Related Accession #	O14641
GenBank Nucleotide #	NM_004422.2
NCBI Official Full Name	segment polarity protein dishevelled homolog DVL-2
NCBI Official Synonym Full Names	dishevelled segment polarity protein 2
NCBI Official Symbol	DVL2
UniProt Protein Name	Segment polarity protein dishevelled homolog DVL-2
UniProt Synonym Protein Names	DSH homolog 2
Protein Family	Segment polarity protein dishevelled
UniProt Gene Name	DVL2
UniProt Synonym Gene Names	Dishevelled-2
UniProt Entry Name	DVL2_HUMAN
NCBI Protein Information	segment polarity protein dishevelled homolog DVL-2; dishevelled, dsh homolog 2; dishevelled 2 (homologous to Drosophila dsh)
NCBI Summary for DVL2	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 gene encodes a 90-kD protein that undergoes posttranslational phosphorylation to form a 95-kD cytoplasmic protein, which may play a role in the signal transduction pathway mediated by multiple Wnt proteins. The mechanisms of dishevelled function in Wnt signaling are likely to be conserved among metazoans. [provided by RefSeq, Jul 2008]
UniProt Comments for DVL2	DVL2: a protein in the WNT/planar cell polarity (PCP) signaling pathway. Dvl2-deficient mice indicate that Dvl2 is essential for normal cardiac morphogenesis, somite segmentation and neural tube closure. Transduces the Wnt signal by interacting with the cytoplasmic Axin complex. Dvl and Axin each contain a DIX domains, which mediate their dynamic polymerization. The Dvl-Axin interaction is essential for Wnt signaling. Interacts through its PDZ domain with the C-terminal regions of VANGL1 and VANGL2. Interacts with Dixin and Rac. There is functional redundancy between Dvl1 and Dvl2 in some phenotypes. Protein type: Adaptor/scaffold; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 17p13.1 Cellular Component: apical part of cell; cytoplasm; plasma membrane; cytoplasmic vesicle; clathrin-coated endocytic vesicle; nucleus; cytosol Molecular Function: identical protein binding; protein domain specific binding; protein binding; protein self-association; frizzled binding Biological Process: segment specification; transcription from RNA polymerase II promoter; positive regulation of JNK activity; Wnt receptor signaling pathway; convergent extension involved in neural plate elongation; Wnt receptor signaling pathway, planar cell polarity pathway; positive regulation of transcription, DNA-dependent; heart development; neural tube closure; positive regulation of transcription factor activity; Wnt receptor signaling pathway through beta-catenin; positive regulation of protein amino acid phosphorylation
Research Articles on DVL2	**1.** site-specific Dvl2 phosphorylation is required for Dvl2 association with PKCiota; this interaction is likely to be one of the mechanisms essential for Wnt3a-dependent neurite outgrowth
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