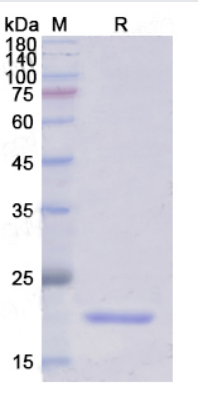
DVL2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	DVL2, Recombinant Protein
Full Product Name	Recombinant Human DVL2, N-His
Product Gene Name	DVL2 recombinant protein
Product Synonym Names	Dishevelled-2; DVL2; DSH homolog 2; Segment polarity protein dishevelled homolog DVL-2
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	78,948 Da
Sequence Positions	Leu78-Thr250
Chromosome Location	Chromosome: 17; NC_000017.10 (7128661..7137863, complement). Location: 17p13.1
OMIM	602151
3D Structure	ModBase 3D Structure for O14641
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for DVL2 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for DVL2 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for DVL2 recombinant protein	MBS1572491 is a recombinant protein targeting DVL2. Also known as Recombinant Human DVL2, N-His. Host: E coli.
Other Notes	Small volumes of DVL2 recombinant protein 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.



SDS-Page of DVL2 recombinant protein
SDS PAGE for recombinant Human DVL2 protein

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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