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DVL2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14900b

Product Information

Application	WB, E
Primary Accession	O14641
Other Accession	Q60838, NP_004413.1
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35224
Calculated MW	78948
Antigen Region	588-617

Additional Information

Gene ID	1856
Other Names	Segment polarity protein dishevelled homolog DVL-2, Dishevelled-2, DSH homolog 2, DVL2
Target/Specificity	This DVL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 588-617 amino acids from the C-terminal region of human DVL2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DVL2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DVL2
Function	Plays a role in the signal transduction pathways mediated by multiple Wnt genes (PubMed:24616100). 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.

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q60838}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q60838}; Cytoplasmic side {ECO:0000250|UniProtKB:Q60838}. Cytoplasm, cytosol. 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:24616100, ECO:0000269|PubMed:25805136}

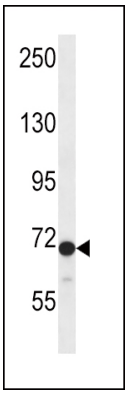
Background

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 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.

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) :

Images



DVL2 Antibody (C-term) (Cat. #AP14900b) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the DVL2 antibody detected the DVL2 protein (arrow).