

## DVL2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14900b

### Product Information

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

### Additional Information

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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

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Name	DVL2
Function	Plays a role in the signal transduction pathways mediated by multiple Wnt genes (PubMed: <a href="#">24616100</a> ). 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}

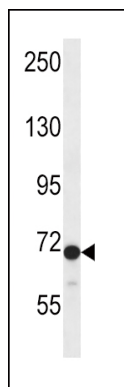
## Background

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.