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phospho-Dishevelled 2 (Thr224) Rabbit pAb

Catalog # AP100217

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O14641
Other Accession	O14641
Reactivity	Human
Predicted	Rat, Pig, Mouse, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78948
Physical State	Liquid
Immunogen	KLH conjugated synthesised phosphopeptide derived from human DVL2 around the phosphorylation site of Thr224
Epitope Specificity	SS(p-T)EQ
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the DSH family.Contains 1 DEP domain. Contains 1 DIX domain. Contains 1 PDZ (DHR) domain.
SUBUNIT	Interacts through its PDZ domain with the C-terminal regions of VANGL1 and VANGL2. Interacts with Rac. Interacts with ARRB1; the interaction is enhanced by phosphorylation of DVL1. Can form large oligomers (via DIX domain). Interacts (via DIX domain) with DIXDC1 (via DIX domain). Interacts (via DEP domain) with AP2M1 and the AP-2 complex. Interacts with DACT1.
Post-translational modifications	Phosphorylated by CSNK1D.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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].

Additional Information

Gene ID	1856
Other Names	Dvl-2; DVL2_HUMAN; DVL2; Dishevelled-2; DSH homolog 2; DVL2_MOUSE; dishevelled segment polarity protein 2; dishevelled 2 (homologous to Drosophila dsh); dishevelled, dsh homolog 2 (Drosophila); DVL2 | Dishevelled 2 (phospho-T224); p-Dishevelled 2; phospho-Dishevelled 2; p-DVL2; DVL2 |

	Dishevelled 2 (phospho-Thr224)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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}

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