

Rabbit DVL2 Polyclonal Antibody | anti-DVL2 antibody

DVL2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325104	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

DVL2; Polyclonal Antibody; DVL2 Antibody; 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; anti-DVL2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	DVL2 antibody detects endogenous levels of total DVL2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	736
Applicable Applications for anti-DVL2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cell Membrane. Cytoplasm > Cytosol. Cytoplasmic Vesicle. Localizes at the cell membrane upon interaction with frizzled family members and promotes their internalization. Localizes to cytoplasmic puncta.
Predicted Cross Reactivity	Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Zebrafish (89%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (89%), Xenopus (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)
AAA325104 at 1/100 staining Rat lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts from K562/Jurkat cells, using DVL2 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)
AAA325104 staining K562 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-DVL2 antibody	Function: Plays a role in the signal transduction pathways mediated by multiple Wnt genes. 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. Subunit Structure: 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 (By similarity). 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 (By similarity). Interacts with DACT1 and FAM105B/otulin. Interacts with DCDC2. Interacts (when phosphorylated) with FOXK1 and FOXK2; the interaction induces DVL2 nuclear translocation (PubMed:25805136). Post-translational Modifications: Phosphorylated by CSNK1D (PubMed:21422228, PubMed:9192851). WNT3A induces DVL2 phosphorylation by CSNK1E and MARK kinases (PubMed:25805136). Similarity: The DIX domain mediates homooligomerization. Belongs to the DSH family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4758216
NCBI GeneID	1856
NCBI Accession #	NP_004413.1
NCBI GenBank Nucleotide #	NM_004422.2
UniProt Accession #	O14641; Q53XM0; D3DTN3
Molecular Weight	Observed: 90 kD Predicted: 79 kDa
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
NCBI Protein Information	segment polarity protein dishevelled homolog DVL-2
UniProt Protein Name	Segment polarity protein dishevelled homolog DVL-2
UniProt Gene Name	DVL2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/dvl2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/325104>