ARG58502
anti-DVL1 / Dishevelled 1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes DVL1 / Dishevelled 1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	DVL1 / Dishevelled 1
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 510-640 of Human DVL1 / Dishevelled 1 (NP_004412.2).
Conjugation	Un-conjugated
Alternate Names	DVL; DSH homolog 1; DVL1P1; DVL1L1; DRS2; Segment polarity protein dishevelled homolog DVL-1; Dishevelled-1

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Mouse heart
Observed Size	90 kDa

Properties

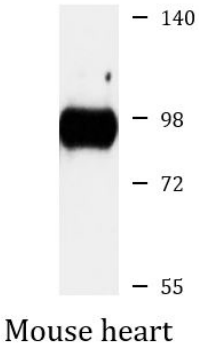
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	DVL1
Gene Full Name	dishevelled segment polarity protein 1
Background	DVL1, the human homolog of the Drosophila dishevelled gene (dsh) encodes a cytoplasmic phosphoprotein that regulates cell proliferation, acting as a transducer molecule for developmental processes, including segmentation and neuroblast specification. DVL1 is a candidate gene for neuroblastomatous transformation. The Schwartz-Jampel syndrome and Charcot-Marie-Tooth disease type 2A have been mapped to the same region as DVL1. The phenotypes of these diseases may be consistent with defects which might be expected from aberrant expression of a DVL gene during development. [provided by RefSeq, Jul 2008]
Function	Participates in Wnt signaling by binding to the cytoplasmic C-terminus of frizzled family members and transducing the Wnt signal to down-stream effectors. Plays a role both in canonical and non-canonical Wnt signaling. Plays a role in the signal transduction pathways mediated by multiple Wnt genes. Required for LEF1 activation upon WNT1 and WNT3A signaling. DVL1 and PAK1 form a ternary complex with MUSK which is important for MUSK-dependent regulation of AChR clustering during the formation of the neuromuscular junction (NMJ). [UniProt]
Calculated Mw	75 kDa
PTM	Ubiquitinated; undergoes both 'Lys-48'-linked ubiquitination, leading to its subsequent degradation by the ubiquitin-proteasome pathway, and 'Lys-63'-linked ubiquitination. The interaction with INVS is required for ubiquitination. Deubiquitinated by CYLD, which acts on 'Lys-63'-linked ubiquitin chains (By similarity). [UniProt]
Cellular Localization	Cell membrane, Peripheral membrane protein, Cytoplasmic side, Cytoplasm, cytosol, Cytoplasmic vesicle. [UniProt]

Images



ARG58502 anti-DVL1 / Dishevelled 1 antibody WB image

Western blot: 25 µg of Mouse heart lysate stained with ARG58502 anti-DVL1 / Dishevelled 1 antibody at 1:1000 dilution.