Datasheet for ABIN2855718

anti-DVL2 antibody (Internal Region)

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Overview

Quantity:	100 µL
Target:	DVL2
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DVL2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Dishevelled 2. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Rhesus Monkey
Cross-Reactivity (Details):	Rhesus Monkey (100 %)
Characteristics:	Rabbit Polyclonal antibody to Dishevelled 2 (dishevelled, dsh homolog 2 (Drosophila)) Dishevelled 2 antibody [N2C2], Internal
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	DVL2
Alternative Name:	Dishevelled 2 (DVL2 Products)
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. Cellular Localization: Cytoplasm
Molecular Weight:	79 kDa
Gene ID:	1856
Pathways:	Tube Formation

Application Details

Application Notes:	Suggested dilution Reference Immunohistochemistry Assay-dependent dilution IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000* Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceImmunohistochemistryAssay-dependent dilution IHC (Formalin-fixed paraffin-embedded sections)1:100-1:1000* Western blot1:500-1:3000*
Comment:	Positive Control: 293T , A431 , H1299 , HeLaS3 , HepG2 , Molt-4 , Raji
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.04 mg/mL
Buffer:	0.1M Tris, 0.1M Glycine, 10 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

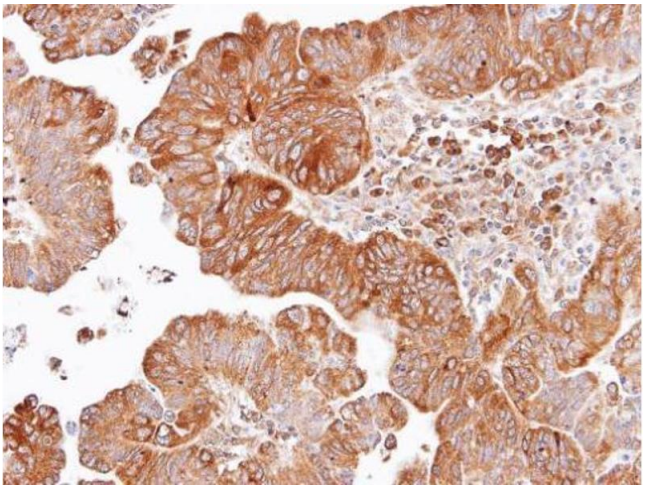
Handling

Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

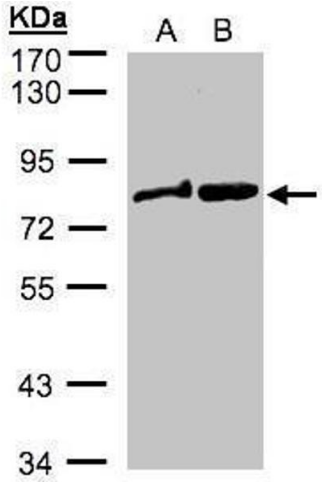
Product cited in:	Piquet, Le Parc, Bai, Chevallier, Adam, Polo: "The Histone Chaperone FACT Coordinates H2A.X-Dependent Signaling and Repair of DNA Damage." in: **Molecular cell**, Vol. 72, Issue 5, pp. 888-901.e7, (2018) (PubMed).

Validation report #104383 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)



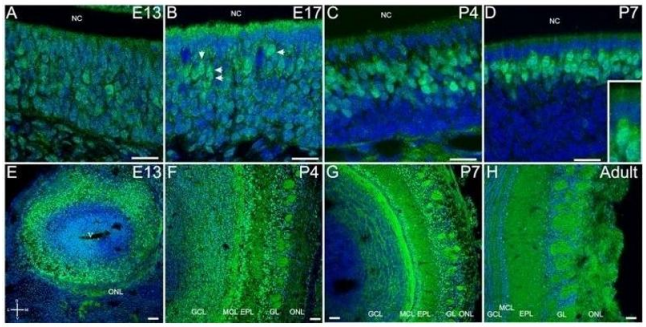
Immunohistochemistry

Image 1. IHC-P Image Immunohistochemical analysis of paraffin-embedded human lung SCC, using Dishevelled 2, antibody at 1:100 dilution.



Western Blotting

Image 2. WB Image Sample(30 ug whole cell lysate) A: MOLT4 , B: Raji , 7.5% SDS PAGE antibody diluted at 1:500



Immunofluorescence (Paraffin-embedded Sections)

Image 3. Dvl-2 is expressed in OSN, in all layers through the olfactory bulb and is associated with synapses inside the glomeruli.Dvl-2 is expressed as early as E13 (A) throughout the OE. During embryonic development some cells showed higher levels of expression than others (B, arrows) and after birth, Dvl-2 expression was restricted to the mature OSN layer of the OE (C, D). Dvl-2 expression was not restricted to the cytoplasm, but was also detected in the nucleus (D, inset). In the developing OB, Dvl-2 was observed as early as E13 (E), and it was detected up to adult (F-H). Even though Dvl-2 was detected in all layers, levels of expression differed between layers and in between animals of the same age (especially after birth). Glomeruli showed a punctate distribution of Dvl-2 (I) similar to that observed for Dvl-1. Dvl-2 expression was not restricted to the cytoplasm and processes, but it also showed nuclear expression, although this expression was not observed in all cells of any given cell type. Electron microscopy images of Dvl-2 stained sections showed that inside the glomerulus, Dvl-2 is in the presynaptic terminal (J). K: In agreement with the immunofluorescence, electron micrographs of periglomerular cells showed some nuclei with Dvl-2 expression (M), while others showed no evidence of Dvl-2 expression (L). Nuclei were counterstained with DRAQ5 (blue). Scale bar =20 μm in A-D, 50 μm in E-H, 10 μm in I, 200 nm in K, 1 μm in K. EPL: external plexiform layer, GCL: granule cell layer, GL: glomerular layer, MCL: Mitral cell layer, NC: Nasal cavity, OE, olfactory epithelium, OB: Olfactory bulb, ONL: olfactory nerve layer, V: ventricle. - figure provided by CiteAb. Source: PMID23437169