Datasheet for ABIN499702

anti-DACT2 antibody (N-Term)

2 Images | 2 Publications

Go to Product page

Overview

Quantity:	0.1 mg
Target:	DACT2
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DACT2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Dact2 antibody was raised against a 12 amino acid peptide from near the amino terminus of human DACT2.
Isotype:	IgG
Specificity:	This antibody reacts to DACT2.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	DACT2
Alternative Name:	DACT2 (DACT2 Products)

Target Details

Background:	The Wnt signaling cascade is a conserved process in multicellular animals that plays important roles during development and can contribute to cancer and other diseases. Many members of this pathway are also expressed in the postnatal tissues such as brain. One such protein is Dact2, a member of the Dact protein family that was initially identified through binding to Disheveled (Dvl), a cytoplasmic protein essential to Wnt signaling. Dact2 is most prominent during the development of the thymus kidneys, and salivary gland. Dact2 is thought to play a role distinct from that of Dact1 with Dact2 having a greater impact on a b-catenin-independent process termed planar cell polarity/convergent-extension signaling. Furthermore, Dact2 but not Dact1 can inhibit Nodal signaling by promoting the endocytic degradation of TGF-b receptors. At least two isoforms of Dact2 are known to exist.Synonyms: C6orf116, DAPPER2, DPR2, PP13671, dapper homolog 2
Gene ID:	168002
NCBI Accession:	NP_999627
UniProt:	Q5SW24

Application Details

Application Notes:	ELISA. Western Blot: 1 - 2 µg/mL. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.

Publications

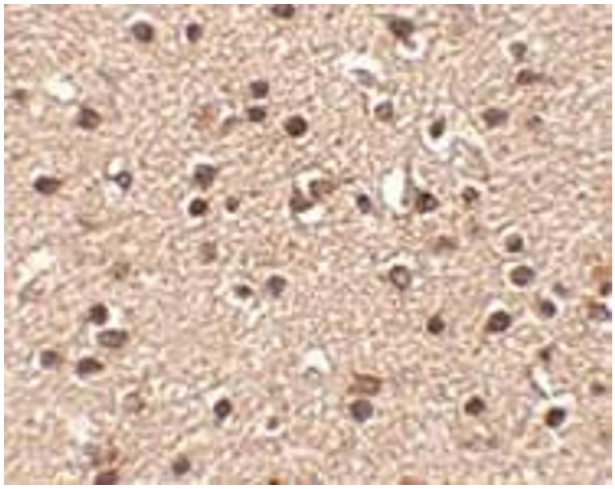
Product cited in:	Tan, Li, Huang, Cheng, Zhao, Chen, Chen, Tang, Zhang, Huang, Cheng: "Upregulation of DACT2 suppresses proliferation and enhances apoptosis of glioma cell via inactivation of YAP

Publications

signaling pathway." in: **Cell death & disease**, Vol. 8, Issue 8, pp. e2981, (2018) (PubMed).

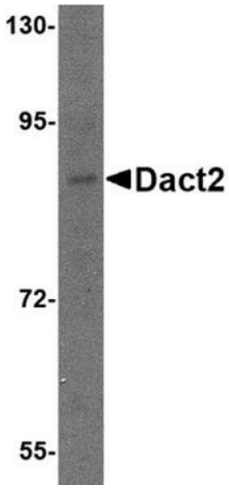
Zhao, Herman, Brock, Sheng, Zhang, Liu, Guo: "Methylation of DACT2 promotes papillary thyroid cancer metastasis by activating Wnt signaling." in: **PLoS ONE**, Vol. 9, Issue 11, pp. e112336, (2015) (PubMed).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of Dact2 in human brain tissue with Dact2 antibody at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of Dact2 in SK-N-SH cell lysate with AP30269PU-N Dact2 antibody at 1 µg/ml.