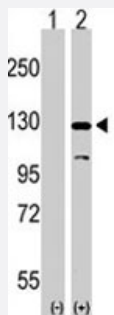


DAAM1 polyclonal antibody

Catalog # PAB1951

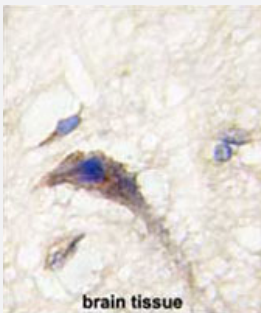
Size 400 uL

Applications



Western Blot (Transfected lysate)

Western blot analysis of DAAM1 (arrow) using DAAM1 polyclonal antibody (Cat # PAB1951). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the DAAM1 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human brain tissue reacted with DAAM1 polyclonal antibody (Cat # PAB1951), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of DAAM1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human DAAM1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

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Gene Info — DAAM1

Entrez GeneID	23002
Protein Accession#	NP_055807;Q9Y4D1
Gene Name	DAAM1
Gene Alias	FLJ41657, KIAA0666
Gene Description	dishevelled associated activator of morphogenesis 1
Omim ID	606626
Gene Ontology	Hyperlink

Gene Summary

Functions of the cell cortex, including motility, adhesion, and cytokinesis, are mediated by the reorganization of the actin cytoskeleton and recent evidence suggests a role for the Formin homology (FH) proteins in these processes. The protein encoded by this gene contains FH domains and belongs to a novel FH protein subfamily implicated in cell polarity. Wnt/Fz signaling activates the small GTPase Rho, a key regulator of cytoskeleton architecture, to control cell polarity and movement during development. Activation requires Dvl-Rho complex formation, an assembly mediated by this gene product, which is thought to function as a scaffolding protein. Evidence of alternative splicing has been observed for this gene but the full-length nature of these variants has not been determined. [provided by RefSeq]

Other Designations

OTTHUMP00000179033|dishevelled-associated activator of morphogenesis 1

Publication Reference

- [DAAM Is Required for Thin Filament Formation and Sarcomerogenesis during Muscle Development in Drosophila.](#)

Molnar I, Migh E, Szikora S, Kalmar T, Vegh AG, Deak F, Barko S, Bugyi B, Orfanos Z, Kovacs J, Juhasz G, Varo G, Nyitrai M, Sparrow J, Mihaly J.

PLoS Genetics 2014 Feb; 10(2):e1004166.

Application: EM, Mouse, Muscle, C2C12 cells

- [Mechanism of activation of the Formin protein Daam1.](#)

Liu W, Sato A, Khadka D, Bharti R, Diaz H, Runnels LW, Habas R.

PNAS 2008 Jan; 105(1):210.

- [Crystal structure of human DAAM1 formin homology 2 domain.](#)

Yamashita M, Higashi T, Suetsugu S, Sato Y, Ikeda T, Shirakawa R, Kita T, Takenawa T, Horiuchi H, Fukai S, Nureki O.

Genes to Cells 2007 Nov; 12(11):1255.

- [Structure of the FH2 domain of Daam1: implications for formin regulation of actin assembly.](#)

Lu J, Meng W, Poy F, Maiti S, Goode BL, Eck MJ.

Journal of Molecular Biology 2007 Jun; 369(5):1258.

Pathway

- [Wnt signaling pathway](#)

Disease

- [Tobacco Use Disorder](#)