10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DAAM1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2720a

Specification

DAAM1 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9Y4D1
Other Accession	Q8BPM0
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**123473**
Antigen Region	**45-74**

DAAM1 Antibody (N-term) - Additional Information

Gene ID 23002

Other Names
Disheveled-associated activator of morphogenesis 1, DAAM1, KIAA0666

Target/Specificity
This DAAM1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 45-74 amino acids from the N-terminal region of human DAAM1.

Dilution
WB~~1:1000
IHC-P~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DAAM1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DAAM1 Antibody (N-term) - Protein Information

Name DAAM1

Synonyms KIAA0666

Function Binds to disheveled (Dvl) and Rho, and mediates Wnt-induced Dvl-Rho complex formation. May play a role as a scaffolding protein to recruit Rho-GDP and Rho-GEF, thereby enhancing Rho-GTP formation. Can direct nucleation and elongation of new actin filaments. Involved in building functional cilia (PubMed:16630611, PubMed:17482208). Involved in the organization of the subapical actin network in multiciliated epithelial cells (By similarity). Together with DAAM2, required for myocardial maturation and sarcomere assembly (By similarity). During cell division, may regulate RHOA activation that signals spindle orientation and chromosomal segregation.

Cellular Location
Cytoplasm. Cytoplasm, cytoskeleton, cilium basal body. Note=Perinuclear. Colocalizes with RHOA and KANK1 around centrosomes. {ECO:0000250|UniProtKB:Q8BPM0}

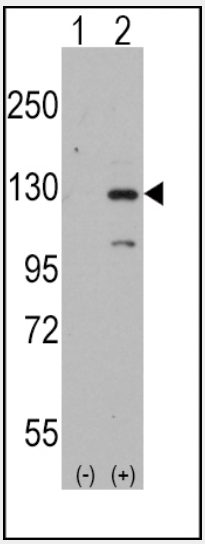
Tissue Location
Expressed in all tissues examined.

DAAM1 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DAAM1 Antibody (N-term) - Images



Western blot analysis of DAAM1 (arrow) using rabbit polyclonal DAAM1 Antibody(Human N-term) (Cat.#AP2720a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the DAAM1 gene (Lane 2) (Origene Technologies).

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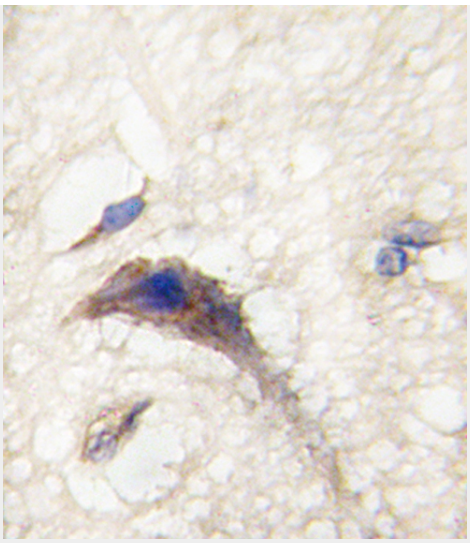

Formalin-fixed and paraffin-embedded human brain tissue reacted with DAAM1 Antibody (N-term) (Cat.#AP2720a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

DAAM1 Antibody (N-term) - Background

Functions of the cell cortex, including motility, adhesion, and cytokinesis, are mediated by the reorganization of the actin cytoskeleton. Recent evidence suggests a role for the Formin homology (FH) proteins in these processes. DAAM1 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 DAAM1, which is thought to function as a scaffolding protein.

DAAM1 Antibody (N-term) - References

Liu,W., Proc. Natl. Acad. Sci. U.S.A. 105 (1), 210-215 (2008)
Yamashita,M.,Genes Cells 12 (11), 1255-1265 (2007)
Lu,J., J. Mol. Biol. 369 (5), 1258-1269 (2007)