

DAAM1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP2720b**Specification**

DAAM1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9Y4D1](#)**DAAM1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 23002**Other Names**

Disheveled-associated activator of morphogenesis 1, DAAM1, KIAA0666

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2720b](/product/products/AP2720b) was selected from the C-term region of human AM1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DAAM1 Antibody (C-term) Blocking Peptide - 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](http://www.uniprot.org/citations/16630611), PubMed: [17482208](http://www.uniprot.org/citations/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 (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

DAAM1 Antibody (C-term) Blocking Peptide - Images**DAAM1 Antibody (C-term) Blocking Peptide - Background**

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. 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 (C-term) Blocking Peptide - 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)