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

Phospho-DAAM1(T361) Antibody Blocking peptide
Synthetic peptide
Catalog # BP3550a

Specification

Phospho-DAAM1(T361) Antibody Blocking peptide - Product Information

Primary Accession Q9Y4D1

Phospho-DAAM1(T361) Antibody 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 AP3550a was selected from the region of human Phospho-DAAM1-pT361. 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.

Phospho-DAAM1(T361) Antibody 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, 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).

Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton, cilium basal body. Note=Perinuclear

Tissue Location
Expressed in all tissues examined.

Phospho-DAAM1(T361) Antibody Blocking peptide - Protocols

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

- Blocking Peptides

Phospho-DAAM1(T361) Antibody Blocking peptide - Images

Phospho-DAAM1(T361) Antibody Blocking peptide - 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.

Phospho-DAAM1(T361) Antibody 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)