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DAAM1 Rabbit pAb

Catalog # AP98522

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9Y4D1
Other Accession	Q9Y4D1
Predicted	Rat, Pig, Human, Mouse, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	123473
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DAAM1
Epitope Specificity	101-200/1078
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the formin homology family. Contains 1 DAD (diaphanous autoregulatory) domain. Contains 1 FH1 (formin homology 1) domain. Contains 1 FH2 (formin homology 2) domain. Contains 1 GBD/FH3 (Rho GTPase-binding/formin homology 3) domain.
SUBUNIT	Homodimer. Interacts with CIP4, FNBP1 and FNBP1L. Interacts with the SH3 domains of Abl, BTK, endophilin, spectrin and SRC. Binds specifically to GTP-bound CDC42 and RHOA.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	DAAM1 (Dishevelled associated activator of morphogenesis 1) is a diaphanous-related formin which binds to dishevelled (Dvl) and Rho, and mediates Wnt-induced Dvl-Rho complex assembly. It is an essential component of noncanonical Wnt signaling. DAAM1 also communicates with Rho GTPases, CIP4 and Src in the regulation of the signalling pathways that co-ordinate the dynamics of the actin filament system. DAAM1 may be a coordinator of endocytosis and cytoskeletal remodeling.

Additional Information

Gene ID	23002
Other Names	DAAM1_HUMAN; DAAM1; KIAA0666; DAAM1_MOUSE; dishevelled associated activator of morphogenesis 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.