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FHOD1 Rabbit pAb

Catalog # AP97394

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9Y613
Other Accession	Q9Y613
Reactivity	Rat, Human, Mouse
Predicted	Pig, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	126551
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FHOD1
Epitope Specificity	601-700/1164
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 FH1 (formin homology 1) domain. Contains 1 FH2 (formin homology 2) domain. Contains 1 GBD/FH3 (Rho GTPase-binding/formin homology 3) domain.
SUBUNIT	Self-associates via the FH2 domain. Binds to F-actin via its N-terminus. Binds to the cytoplasmic domain of CD21 via its C-terminus. Interacts with ROCK1 in a Src-dependent manner.
Post-translational modifications	Phosphorylated by ROCK1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The limb deformity (ld) locus influences normal limb development and gives rise to alternative mRNAs that can translate into a family of protein products known as formins. Formins play a crucial role in cytoskeletal reorganization by influencing actin filament assembly. The temporal genetic hierarchy influencing normal limb development can deregulate and mediate mammalian developmental syndromes. FHOD1 induces the formation of and associates with bundled actin stress fibers in response to the activity of the Rho-ROCK cascade. It influences several cellular activities including cell migration, cytoskeletal arrangement, signal transduction and gene expression.

Additional Information

Gene ID	29109
Other Names	FHOS; FHOD1_HUMAN; FHOD1; Formin homolog overexpressed in spleen 1 (FHOS); Formin homology 2 domain-containing protein 1; FHOS1; formin homology 2 domain containing 1

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=2ug /Test
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	FHOD1
Synonyms	FHOS, FHOS1
Function	Required for the assembly of F-actin structures, such as stress fibers. Depends on the Rho-ROCK cascade for its activity. Contributes to the coordination of microtubules with actin fibers and plays a role in cell elongation. Acts synergistically with ROCK1 to promote SRC-dependent non-apoptotic plasma membrane blebbing.
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton. Cell projection, bleb. Note=Predominantly cytoplasmic
Tissue Location	Ubiquitous. Highly expressed in spleen.

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