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Kindlin 2 Rabbit pAb

Catalog # AP99707

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96AC1
Other Accession	Q96AC1
Reactivity	Human
Predicted	Rat, Pig, Mouse, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77861
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Kindlin 2/MIG2
Epitope Specificity	352-420/680
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 kindlin family. Contains 1 FERM domain. Contains 1 PH domain.
SUBUNIT	Interacts with FBLP1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Mig-2 recruits migfilin to cell-matrix adhesions, while the interaction with filamin mediates the association of migfilin with actin filaments. Together, Mig-2, migfilin and filamin define a connection between cell matrix adhesions and the actin cytoskeleton and participate in the orchestration of actin assembly and cell shape modulation. Mig-2 expression is transcriptionally elevated in leiomyomas and could be involved in its hormone-mediated growth of leiomyomas of the uterus. Expression of Mig-2 is ubiquitous, and it is found in numerous tumor tissues.

Additional Information

Gene ID	10979
Other Names	KIND2; MIG2; PLEKHC1; UNC112; UNC112B; mig-2; Kindlin-2; FERM2_HUMAN; FERMT2; Mitogen-inducible gene 2 protein (MIG-2); Pleckstrin homology domain-containing family C member 1 (PH domain-containing family C member 1); FERM2_MOUSE; Pleckstrin homology domain-containing family C member 1; FERM domain containing kindlin 2; pleckstrin homology domain containing, family C (with FERM domain) member 1; fermitin family homolog 2 (Drosophila); fermitin family member 2; mitogen inducible gene-2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	FERMT2
Synonyms	KIND2, MIG2, PLEKHC1
Function	Scaffolding protein that enhances integrin activation mediated by TLN1 and/or TLN2, but activates integrins only weakly by itself. Binds to membranes enriched in phosphoinositides. Enhances integrin-mediated cell adhesion onto the extracellular matrix and cell spreading; this requires both its ability to interact with integrins and with phospholipid membranes. Required for the assembly of focal adhesions. Participates in the connection between extracellular matrix adhesion sites and the actin cytoskeleton and also in the orchestration of actin assembly and cell shape modulation. Recruits FBLIM1 to focal adhesions. Plays a role in the TGFB1 and integrin signaling pathways. Stabilizes active CTNNB1 and plays a role in the regulation of transcription mediated by CTNNB1 and TCF7L2/TCF4 and in Wnt signaling.
Cellular Location	Cytoplasm. Cytoplasm, cell cortex. Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, stress fiber. Cell junction, focal adhesion. Membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, lamellipodium membrane; Peripheral membrane protein; Cytoplasmic side. Nucleus. Cytoplasm, myofibril, sarcomere, I band. Cell surface. Note=Colocalizes with actin stress fibers at cell-ECM focal adhesion sites. Colocalizes with ITGB3 at lamellipodia at the leading edge of spreading cells. Binds to membranes that contain phosphatidylinositides
Tissue Location	Ubiquitous. Found in numerous tumor tissues.

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