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FERMT2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18977b

Product Information

Application	WB, E
Primary Accession	Q96AC1
Other Accession	Q8CIB5, F1Q8X5, NP_006823.1
Reactivity	Human
Predicted	Zebrafish, Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39207
Calculated MW	77861
Antigen Region	641-669

Additional Information

Gene ID	10979
Other Names	Fermitin family homolog 2, Kindlin-2, Mitogen-inducible gene 2 protein, MIG-2, Pleckstrin homology domain-containing family C member 1, PH domain-containing family C member 1, FERMT2, KIND2, MIG2, PLEKHC1
Target/Specificity	This FERMT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 641-669 amino acids from the C-terminal region of human FERMT2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FERMT2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

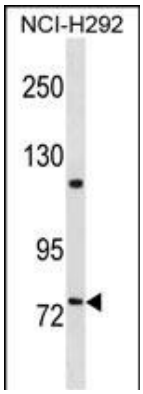
Background

FERMT2 participates in the connection between ECM adhesion sites and the actin cytoskeleton and also in the orchestration of actin assembly and cell shape modulation. Recruits migfilin (FBLP1) protein to cell-ECM focal adhesion sites.

References

An, Z., et al. Int. J. Cancer 127(9):1999-2008(2010) Bledzka, K., et al. J. Biol. Chem. 285(40):30370-30374(2010) Lai-Cheong, J.E., et al. Int. J. Biochem. Cell Biol. 42(5):595-603(2010) Lai-Cheong, J.E., et al. J. Invest. Dermatol. 128(9):2156-2165(2008) Ma, Y.Q., et al. J. Cell Biol. 181(3):439-446(2008)

Images



FERMT2 Antibody (C-term) (Cat. #AP18977b) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the FERMT2 antibody detected the FERMT2 protein (arrow).

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