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PINCH Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1591a

Product Information

Application	WB, FC, ICC, E
Primary Accession	P48059
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5G7
Isotype	IgG1
Calculated MW	37251
Description	The protein encoded by this gene is an adaptor protein which contains five LIM domains, or double zinc fingers. The protein is likely involved in integrin signaling through its LIM domain-mediated interaction with integrin-linked kinase, found in focal adhesion plaques. It is also thought to act as a bridge linking integrin-linked kinase to NCK adaptor protein 2, which is involved in growth factor receptor kinase signaling pathways. Its localization to the periphery of spreading cells also suggests that this protein may play a role in integrin-mediated cell adhesion or spreading. Several transcript variants encoding different isoforms have been found for this gene.
Immunogen	Purified recombinant fragment of human PINCH expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	3987
Other Names	LIM and senescent cell antigen-like-containing domain protein 1, Particularly interesting new Cys-His protein 1, PINCH-1, Renal carcinoma antigen NY-REN-48, LIMS1, PINCH, PINCH1
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PINCH Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LIMS1
Synonyms	PINCH, PINCH1
Function	Within the IPP (ILK-PINCH-PARVIN) complex, binds to F-actin, promoting F-actin bundling, a process required to generate force for actin cytoskeleton reorganization and subsequent dynamic cell adhesion events such as cell spreading and migration.
Cellular Location	Cell junction, focal adhesion. Cell membrane; Peripheral membrane protein; Cytoplasmic side
Tissue Location	Expressed in most tissues except in the brain.

References

1. J Biol Chem. 2009 Feb 27;284(9):5836-44. 2. Proc Natl Acad Sci U S A. 2008 Dec 30;105(52):20677-82.

Images

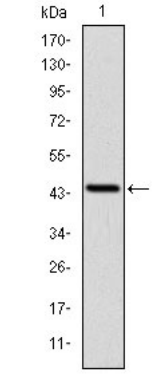


Figure 1: Western blot analysis using PINCH mAb against human PINCH (AA: 87-249) recombinant protein. (Expected MW is 44.2 kDa)

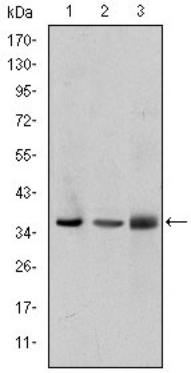


Figure 2: Western blot analysis using PINCH mouse mAb against A549 (1), Jurkat (2), and Hela (3) cell lysate.

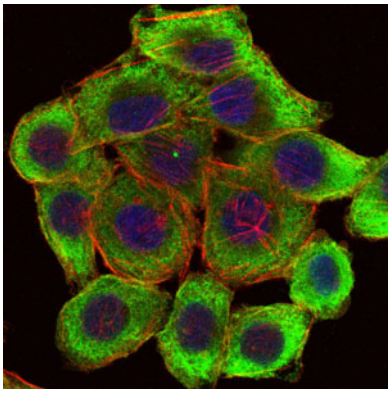
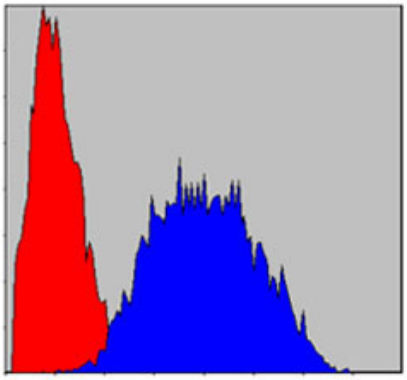


Figure 3: Immunofluorescence analysis of HepG2 cells using PINCH mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Figure 4: Flow cytometric analysis of Hela cells using PINCH mouse mAb (blue) and negative control (red).



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