

PINCH Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1591a**Specification****PINCH Antibody - Product Information**

Application	WB, FC, ICC, E
Primary Accession	P48059
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	37kDa KDa

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.

PINCH Antibody - 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.

PINCH Antibody - 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

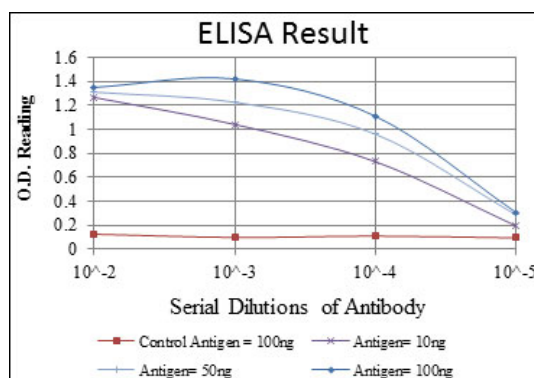
Tissue Location

Expressed in most tissues except in the brain.

PINCH Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



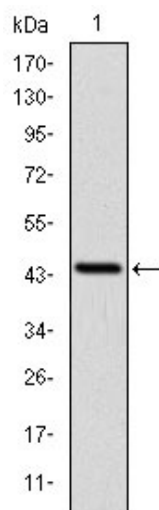


Figure 1: Western blot analysis using PINCH mAb against human PINCH (AA: 87-249) recombinant protein. (Expected MW is 44.2 kDa)

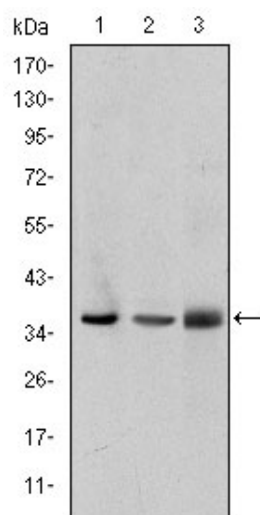


Figure 2: Western blot analysis using PINCH mouse mAb against A549 (1), Jurkat (2), and Hela (3) cell lysate.

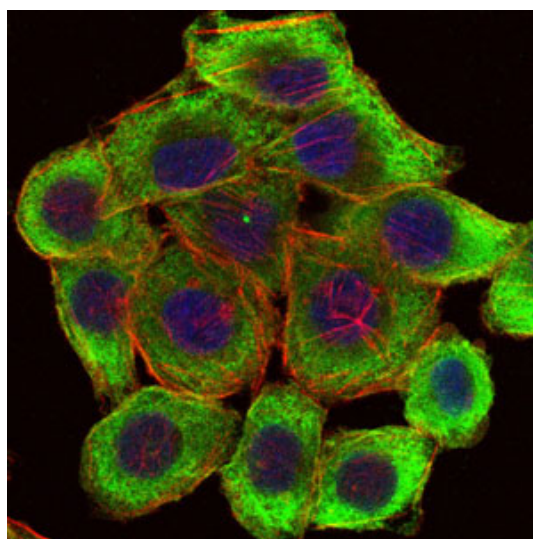


Figure 3: Immunofluorescence analysis of HepG2 cells using PINCH mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

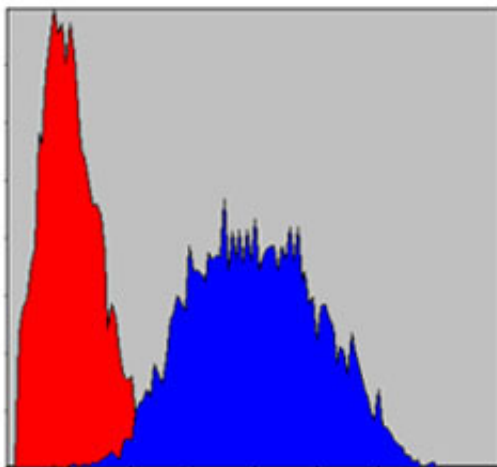


Figure 4: Flow cytometric analysis of Hela cells using PINCH mouse mAb (blue) and negative control (red).

PINCH Antibody - 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.