

# PINCH Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1591a

## Product Information

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<b>Application</b>	WB, FC, ICC, E
<b>Primary Accession</b>	<a href="#">P48059</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	5G7
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	37251
<b>Description</b>	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.
<b>Immunogen</b>	Purified recombinant fragment of human PINCH expressed in E. Coli.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide.

## Additional Information

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<b>Gene ID</b>	3987
<b>Other Names</b>	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
<b>Dilution</b>	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
<b>Storage</b>	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.
<b>Precautions</b>	PINCH Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	LIMS1
<b>Synonyms</b>	PINCH, PINCH1
<b>Function</b>	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.
<b>Cellular Location</b>	Cell junction, focal adhesion. Cell membrane; Peripheral membrane protein; Cytoplasmic side
<b>Tissue Location</b>	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

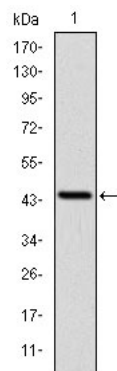


Figure 1: Western blot analysis using PINCH mAb against human PINCH (AA: 87-249) recombinant protein. (Expected MW is 44.2 kDa)

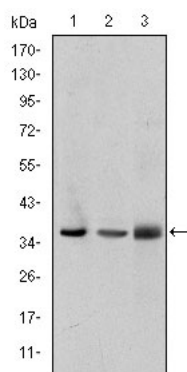


Figure 2: Western blot analysis using PINCH mouse mAb against A549 (1), Jurkat (2), and Hela (3) cell lysate.

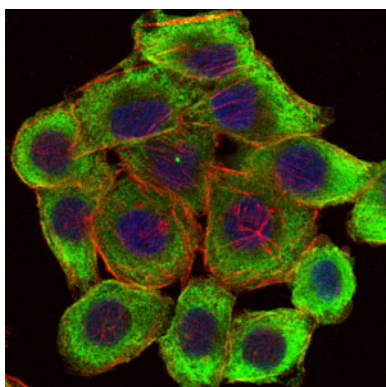
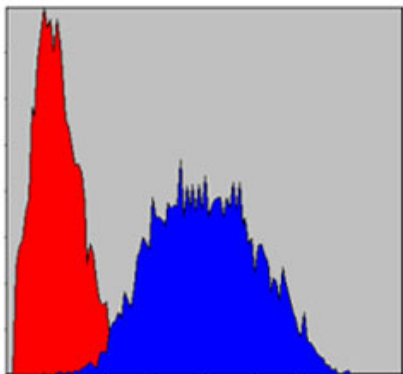


Figure 3: Immunofluorescence analysis of HepG2 cells using PINCH mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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



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