

PINCH (5G7) Mouse mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	35	Mouse IgG1	#P48059	3987

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

PINCH (5G7) Mouse mAb recognizes endogenous levels of total PINCH protein. The antibody recognizes a protein of unknown origin at 80 kDa in some cell lines.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the the human PINCH protein.

Background

The extracellular matrix (ECM) is a complex structure of secreted macromolecules surrounding mammalian organs and tissues. Controlled interactions between cells and the ECM are important in proliferation, migration, survival, polarity, and differentiation. Cells contact the ECM primarily through focal adhesion complexes, which contain integrins, as well as multiple adaptor and signaling proteins (1). The ILK/PINCH/Parvin (IPP) adaptor complex acts at the interface of the integrin/actin connection to regulate formation of focal adhesions and integrin signaling. Roles for IPP proteins outside of the IPP complex have been proposed, including regulation of gene expression (2,3). PINCH, also known as LIMS1, has been shown to function as a specific regulator of gene expression in glomerular podocytes in response to TGF-β1 (4). Researchers have shown that PINCH is highly expressed in some human tumors, and that PINCH can promote resistance to ionizing radiation through activation of Akt (5,6).

Background References

- Burridge, K. et al. (1988) *Annu Rev Cell Biol* 4, 487-525.
- Legate, K.R. et al. (2006) *Nat Rev Mol Cell Biol* 7, 20-31.
- Wu, C. (2004) *Biochim Biophys Acta* 1692, 55-62.
- Wang, D. et al. (2011) *PLoS One* 6, e17048.
- Eke, I. et al. (2010) *J Clin Invest* 120, 2516-27.
- Sandfort, V. et al. (2010) *PLoS One* 5, .

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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