

# Pinch-1 (N-19): sc-47914

## BACKGROUND

Pinch, also designated particularly interesting new Cys-His protein or NY-REN-48, is a focal adhesion protein that is a component of the ILK-Pinch complex. This complex is a major part of the growth factor and integrin signaling pathway. Pinch is involved in cell differentiation, proliferation and survival by acting as an effector of integrin and growth factor signaling. It is a cytoplasmic protein expressed in most tissues and consists of five LIM domains, a nuclear localization signal and a nuclear export signal. The Pinch-1/ILK complex is regulated by a Pinch-1-related protein, Pinch-2, which also forms a complex with ILK.

## REFERENCES

- Zhang, Y., et al. 2002. Characterization of Pinch-2, a new focal adhesion Pinch-1-ILK interaction, cell spreading, and migration. *J. Biol. Chem.* 277: 38328-38338.
- Fukuda, T., et al. 2003. Pinch-1 is an obligate partner of integrin-linked kinase (ILK) functioning in cell shape modulation, motility, and survival. *J. Biol. Chem.* 278: 51324-51333.
- Wu, C. 2005. Pinch, N(i)ck and the ILK: network wiring at cell-matrix adhesions. *Trends Cell Biol.* 15: 460-466.
- Martinsen, B.J., et al. 2005. Pinch-1 expression during early avian embryogenesis: implications for neural crest and heart development. *Dev. Dyn.* 235: 152-162.

## SOURCE

Pinch-1 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Pinch-1 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, ready P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Pinch-1 (N-19) is recommended for detection of Pinch-1 and Pinch-2 of mouse and human origin and Pinch-3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Pinch-1 (N-19) is also recommended for detection of Pinch-1 and Pinch-2 of mouse and human origin, and Pinch-3 of human origin in additional species, including equine, canine, bovine, porcine and avian.

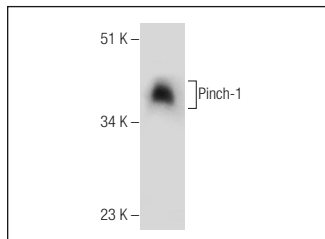
Molecular Weight of Pinch-1: 37 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203 or human platelet extract: sc-363773.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



Pinch-1 (N-19): sc-47914. Western blot analysis of Pinch-1 expression in human platelet extract.

## SELECT PRODUCT CITATIONS

- Tucker, K.L., et al. 2009. Proteomic analysis of resting and thrombin-stimulated platelets reveals the translocation and functional relevance of HIP-55 in platelets. *Proteomics* 9: 4340-4354.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



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Try **Pinch-1 (A-1): sc-393133** or **Pinch-1 (B-8): sc-393151**, our highly recommended monoclonal alternatives to Pinch-1 (N-19).