

# Pinch-1 (R-13): sc-47915

## 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

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## CHROMOSOMAL LOCATION

Genetic locus: LIMS1 (human) mapping to 2q12.3, LIMS2 (human) mapping to 2q14.3; Lims1 (mouse) mapping to 10 B4, Lims2 (mouse) mapping to 18 B1.

## SOURCE

Pinch-1 (R-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Pinch-1 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g 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  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Pinch-1 (R-13) is recommended for detection of Pinch-1 and Pinch-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 (R-13) is also recommended for detection of Pinch-1 and Pinch-2 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.

## 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) 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.

## 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.