

Pinch-1 (D-18): sc-47912

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

1. Zhang, Y., Chen, K., Guo, L. and Wu, C. 2002. Characterization of Pinch-2, a new focal adhesion Pinch-1-ILK interaction, cell spreading, and migration. *J. Biol. Chem.* 277: 38328-38338.
2. Fukuda, T., Chen, K., Shi, X. and Wu, C. 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.

CHROMOSOMAL LOCATION

Genetic locus: LIMS1 (human) mapping to 2q12.3; Lims1 (mouse) mapping to 10 B4.

SOURCE

Pinch-1 (D-18) 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 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 (D-18) is recommended for detection of Pinch-1 of mouse, rat and 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 (D-18) is also recommended for detection of Pinch-1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Pinch-1 siRNA (h): sc-61355, Pinch-1 siRNA (m): sc-61356, Pinch-1 shRNA Plasmid (h): sc-61355-SH, Pinch-1 shRNA Plasmid (m): sc-61356-SH, Pinch-1 shRNA (h) Lentiviral Particles: sc-61355-V and Pinch-1 shRNA (m) Lentiviral Particles: sc-61356-V.

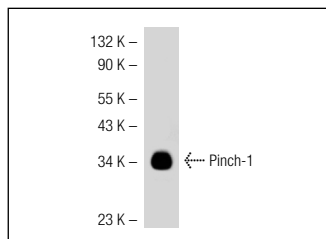
Molecular Weight of Pinch-1: 37 kDa.

Positive Controls: human platelet extract: sc-363773 or 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) 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 (D-18): sc-47912. Western blot analysis of Pinch-1 expression in human platelet extract.

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 or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **Pinch-1 (A-1): sc-393133** or **Pinch-1 (B-8): sc-393151**, our highly recommended monoclonal alternatives to Pinch-1 (D-18).