**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**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

Pinch-1 (A-1) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 132-169 within an internal region of Pinch-1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-393133 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**RESEARCH USE**

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

**APPLICATIONS**

Pinch-1 (A-1) is recommended for detection of Pinch-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 (A-1) is also recommended for detection of Pinch-1 in additional species, including 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-61355SH, Pinch-1 shRNA Plasmid (m): sc-61356SH, 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: K-562 whole cell lysate: sc-2203, T98G cell lysate: sc-2294 or COLO 320DM cell lysate: sc-2226.

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**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

**DATA STORAGE**

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

**PROTOCOLS**

See our website at www.scbt.com for detailed protocols and support products.