

Clik1 (E-20): sc-69260

BACKGROUND

Clik1 (CLP36 interacting kinase), also known as STK35 (serine/threonine-protein kinase 35) or PDIK1 (PDLIM1-interacting kinase 1), is a 401 amino acid protein that belongs to the protein kinase superfamily. Localized predominately to the nucleus, Clik1 is expressed in the liver, kidney, pancreas, spleen, thymus, prostate and testis. However, coexpression with CLP36 causes relocalization of nuclear Clik1 to the cytoplasm and into actin stress fibers. Actin stress fibers form a dynamic organelle that is important in processes involving cell shape, such as cell migration, cell polarity and cytokinesis. It is suggested that Clik1 may be a novel regulator of the actomyosin cytoskeleton in nonmuscle cells.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: STK35 (human) mapping to 20p13; Stk35 (mouse) mapping to 2 F1.

SOURCE

Clik1 (E-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Clik1 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-69260 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Clik1 (E-20) is recommended for detection of Clik1 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).

Clik1 (E-20) is also recommended for detection of Clik1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Clik1 siRNA (h): sc-72921, Clik1 siRNA (m): sc-72922, Clik1 shRNA Plasmid (h): sc-72921-SH, Clik1 shRNA Plasmid (m): sc-72922-SH, Clik1 shRNA (h) Lentiviral Particles: sc-72921-V and Clik1 shRNA (m) Lentiviral Particles: sc-72922-V.

Molecular Weight of Clik1: 45 kDa.

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 or our catalog for detailed protocols and support products.