

SIK2 (Y-19): sc-33073

BACKGROUND

QIK (Qin-induced kinase) is a serine/threonine-protein kinase that belongs to the AMPK/SNF1 kinase family. Also designated SIK2 (SNF1-like kinase 2), QIK is one of twelve human kinases (NUAK1, NUAK2, BRSK1, BRSK2, QIK, QSK, SIK, MARK1, MARK2, MARK3, MARK4 and MELK) related to AMPK. QIK is a ubiquitously expressed protein and is rapidly upregulated after a hormone-regulated form of Qin is activated. *In vitro* kinase tests demonstrate that QIK is capable of autophosphorylation. Elevated levels of QIK transcripts are also observed in Src-transformed cells, suggesting that Src and Qin share some targets.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SNF1LK2 (human) mapping to 11q23.1; Snf1lk2 (mouse) mapping to 9 A5.3 .

SOURCE

SIK2 (Y-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of SIK2 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, sc-33073 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

SIK2 (Y-19) is recommended for detection of SIK2 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).

Suitable for use as control antibody for SIK2 siRNA (h): sc-44364, SIK2 siRNA (m): sc-44365, SIK2 shRNA Plasmid (h): sc-44364-SH, SIK2 shRNA Plasmid (m): sc-44365-SH, SIK2 shRNA (h) Lentiviral Particles: sc-44364-V and SIK2 shRNA (m) Lentiviral Particles: sc-44365-V.

Molecular Weight of SIK2: 104 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


 MONOS
Satisfaction
Guaranteed

Try **SIK2 (B-12): sc-393139**, our highly recommended monoclonal alternative to SIK2 (Y-19).