SANTA CRUZ BIOTECHNOLOGY, INC.

IKIP (D-14): sc-161731

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

IKIP (inhibitor of nuclear factor κ-B kinase-interacting protein, IKK-interacting protein) is a single-pass membrane protein that shares a common promoter with APAF1. APAF1 and IKIP are both induced by X irradiation, however, the two gene products are transcribed in different directions. The IKIP gene is believed to be a target for p53 as expression of IKIP has been shown to promote apoptosis. IKIP has four known isoforms, three of which are found traversing the endoplasmic reticulum membrane. IKIP isoform 4 has a deletion of the transmembrane region which leads to a homogenous distribution of the protein within the cell. The IKIP gene products are expressed in vascular endothelial cells, while the isoform 4 has also been detected in lung, kidney, spleen, thymus and skeletal muscle.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: IKBIP (human) mapping to 12q23.1; Ikbip (mouse) mapping to 10 C2.

SOURCE

IKIP (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of IKIP 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-161731 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

IKIP (D-14) is recommended for detection of IKIP of mouse 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).

IKIP (D-14) is also recommended for detection of IKIP in additional species, including equine and bovine.

Suitable for use as control antibody for IKIP siRNA (h): sc-96217, IKIP siRNA (m): sc-146201, IKIP shRNA Plasmid (h): sc-96217-SH, IKIP shRNA Plasmid (m): sc-146201-SH, IKIP shRNA (h) Lentiviral Particles: sc-96217-V and IKIP shRNA (m) Lentiviral Particles: sc-146201-V.

Molecular Weight of IKIP isoforms: 43/39/27/7 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HeLa whole cell lysate: sc-2200 or A549 cell lysate: sc-2413.

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.