

IKIP (K-12): sc-161733

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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3. Hofer-Warbinek, R., et al. 2004. A highly conserved proapoptotic gene, IKIP, located next to the APAF1 gene locus, is regulated by p53. *Cell Death Differ.* 11: 1317-1325.
4. Avila, C.M., et al. 2009. Structural insights into IKK β inhibition by natural products staurosporine and quercetin. *Bioorg. Med. Chem. Lett.* 19: 6907-6910.
5. Emmanouil, M., et al. 2009. Neuronal I κ B kinase β protects mice from autoimmune encephalomyelitis by mediating neuroprotective and immunosuppressive effects in the central nervous system. *J. Immunol.* 183: 7877-7889.
6. Lin, Y., et al. 2010. The NF κ B activation pathways, emerging molecular targets for cancer prevention and therapy. *Expert Opin. Ther. Targets* 14: 45-55.

CHROMOSOMAL LOCATION

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

SOURCE

IKIP (K-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of IKIP 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-161733 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

IKIP (K-12) is recommended for detection of IKIP of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

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.

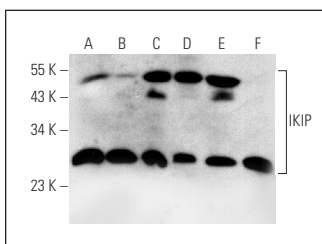
Molecular Weight of IKIP isoforms: 7/27/39/43 kDa.

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

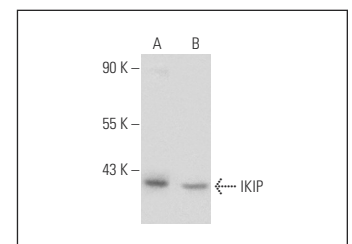
RECOMMENDED SECONDARY REAGENTS

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) 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



IKIP (K-12): sc-161733. Western blot analysis of IKIP expression in HeLa (A), HEK293 (B), ECV304 (C), HUV-EC-C (D), A549 (E) and Jurkat (F) whole cell lysates.



IKIP (K-12): sc-161733. Western blot analysis of IKIP expression in LADMAC (A) and KNRK (B) whole cell lysates.

RESEARCH USE

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

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Try **IKIP (E-3): sc-515346**, our highly recommended monoclonal alternative to IKIP (K-12).