

AKIP (K-18): sc-70108

BACKGROUND

AKIP (AURKA-interacting protein), also known as AURKAIP1 (aurora kinase A interacting protein 1) or AIP, is a 199 amino acid protein that localizes to the nucleus and is ubiquitously expressed, with highest levels present in testis, heart and skeletal muscle. Interacting specifically with ARK-1 (aurora kinase 1), AKIP functions to induce the proteasomal-dependent degradation of ARK-1, thereby acting as a negative regulator of ARK-1 activity. AKIP is encoded by a gene which maps to human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AURKAIP1 (human) mapping to 1p36.33; Aurkaip1 (mouse) mapping to 4 E2.

SOURCE

AKIP (K-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of AKIP of human origin.

RESEARCH USE

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

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-70108 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

AKIP (K-18) is recommended for detection of AKIP 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).

AKIP (K-18) is also recommended for detection of AKIP in additional species, including canine and bovine.

Suitable for use as control antibody for AKIP siRNA (h): sc-72472, AKIP siRNA (m): sc-72473, AKIP shRNA Plasmid (h): sc-72472-SH, AKIP shRNA Plasmid (m): sc-72473-SH, AKIP shRNA (h) Lentiviral Particles: sc-72472-V and AKIP shRNA (m) Lentiviral Particles: sc-72473-V.

Molecular Weight of AKIP: 22 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.