

Jade-1 (S-15): sc-160452

BACKGROUND

Jade-1, also known as PHF17 (PHD finger protein 17), is an 842 amino acid protein that localizes to both the cytoplasm and the nucleus and contains two PHD-type zinc fingers. Expressed at high levels in kidney tissue and also present in heart, pancreas and liver, Jade-1 functions as a transcriptional coactivator that, via its PHD zinc fingers, promotes the TIP30-dependent acetylation of Histone H4. Additionally, Jade-1 is thought to promote apoptosis and is down-regulated in renal carcinoma cells, suggesting a possible role in tumor suppression. Three isoforms of Jade-1, two of which are designated JADE1L and JADE1S, are produced via alternative splicing events. The gene encoding Jade-1 maps to human chromosome 4, which encodes nearly 6% of the human genome and has the largest gene deserts (regions of the genome with no protein encoding genes) of all of the human chromosomes.

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CHROMOSOMAL LOCATION

Genetic locus: PHF17 (human) mapping to 4q28.2; Phf17 (mouse) mapping to 3 B.

SOURCE

Jade-1 (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Jade-1 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-160452 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Jade-1 (S-15) is recommended for detection of Jade-1 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).

Jade-1 (S-15) is also recommended for detection of Jade-1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Jade-1 siRNA (h): sc-88893, Jade-1 siRNA (m): sc-146315, Jade-1 shRNA Plasmid (h): sc-88893-SH, Jade-1 shRNA Plasmid (m): sc-146315-SH, Jade-1 shRNA (h) Lentiviral Particles: sc-88893-V and Jade-1 shRNA (m) Lentiviral Particles: sc-146315-V.

Molecular Weight of Jade-1: 64 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.