UHMK1 (N-15): sc-103917



The Power to Question

BACKGROUND

The phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular
functions in eukaryotes, including cell division, homeostasis and apoptosis.
A group of proteins that are intimately involved in this process are the serine/threonine (Ser/Thr) protein kinases. UHMK1 (U2AF homology motif kinase
1), also known as KIS (kinase interacting with stathmin) or KIST, is a 419
amino acid nuclear protein that contains one protein kinase domain and one
RRM domain and belongs to the Ser/Thr protein kinase family. Expressed in
a variety of tissues with highest levels present in placenta, kidney and skeletal
muscle, UHMK1 functions to catalyze the ATP-dependent phosphorylation of
target proteins, such as p27, and is thought to be involved in cell cycle regulation, as well as in the trafficking and processing of RNA. Multiple isoforms
of UHMK1 exist due to alternative splicing events.

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CHROMOSOMAL LOCATION

Genetic locus: UHMK1 (human) mapping to 1q23.3; Uhmk1 (mouse) mapping to 1 H3.

SOURCE

UHMK1 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of UHMK1 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-103917 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

UHMK1 (N-15) is recommended for detection of UHMK1 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 UHMK1 siRNA (h): sc-78640, UHMK1 siRNA (m): sc-106671, UHMK1 shRNA Plasmid (h): sc-78640-SH, UHMK1 shRNA Plasmid (m): sc-106671-SH, UHMK1 shRNA (h) Lentiviral Particles: sc-78640-V and UHMK1 shRNA (m) Lentiviral Particles: sc-106671-V.

Molecular Weight of UHMK1: 49 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.

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.

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