

HUNK (N-16): sc-46144

BACKGROUND

The HUNK (hormonally upregulated Neu-associated kinase) protein, also designated MAK-V in mouse, has been identified as a novel SNF1-related serine/threonine kinase. The human HUNK gene localizes to chromosome 21q22 and encodes a protein with nucleocytoplasmic distribution and localizes to the centrosome. Overexpression of the HUNK protein associates with approximately 50% of breast carcinomas, and may provide diagnostic-prognostic value as a molecular marker. Serine/threonine-protein kinase SNF1-like kinase 2 (SIK) phosphorylates Ser-794 of IRS1 in Insulin-stimulated adipocytes, which may modulate the efficiency of Insulin signal transduction. SIK is activated by phosphorylation on Thr-175 by STK11 in complex with STE20-related adapter- α and CAB39.

CHROMOSOMAL LOCATION

Genetic locus: HUNK (human) mapping to 21q22.11; Hunk (mouse) mapping to 16 C3.3.

SOURCE

HUNK (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of HUNK 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-46144 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.

RESEARCH USE

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

APPLICATIONS

HUNK (N-16) is recommended for detection of HUNK 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

HUNK (N-16) is also recommended for detection of HUNK in additional species, including bovine.

Suitable for use as control antibody for HUNK siRNA (h): sc-44362, HUNK siRNA (m): sc-44363, HUNK shRNA Plasmid (h): sc-44362-SH, HUNK shRNA Plasmid (m): sc-44363-SH, HUNK shRNA (h) Lentiviral Particles: sc-44362-V and HUNK shRNA (m) Lentiviral Particles: sc-44363-V.

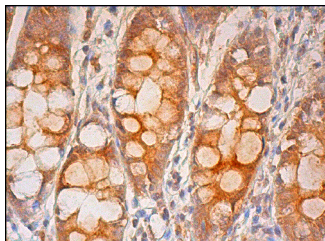
Molecular Weight of HUNK: 80 kDa.

Positive Controls: rat adrenal gland extract: sc-364802.

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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



HUNK (N-16): sc-46144. Immunoperoxidase staining of formalin fixed, paraffin-embedded human rectum tissue showing cytoplasmic staining of glandular cells.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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Try **HUNK (B-7): sc-514689**, our highly recommended monoclonal alternative to HUNK (N-16).