

HIPK3 (H-80): sc-66920

BACKGROUND

The homeodomain-interacting protein kinase (HIPK) family includes three members, HIPK1, HIPK2 and HIPK3. Each family member contains a conserved protein kinase domain as well as a separate domain which interacts with homeoproteins. HIPK2 appears to act as a corepressor of homeodomain transcription factors, such as NK-3. Also, HIPK2 is regulated by ubiquitin-like modification via the covalent binding of SUMO-1. Subsequently, it is directed to nuclear bodies *in vitro*.

REFERENCES

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- Nupponen, N.N. and Visakorpi, T. 1999. Assignment of the protein kinase homolog of YAK1 (HIPK3) to human chromosome band 11p13 by *in situ* hybridization. *Cytogenet. Cell Genet.* 87: 102-103.
- Rochat-Steiner, V., et al. 2000. FIST/HIPK3: a FAS/FADD-interacting serine/threonine kinase that induces FADD phosphorylation and inhibits FAS-mediated Jun NH₂-terminal kinase activation. *J. Exp. Med.* 192: 1165-1174.
- Curtin, J.F. and Cotter, T.G. 2004. JNK regulates HIPK3 expression and promotes resistance to FAS-mediated apoptosis in DU 145 prostate carcinoma cells. *J. Biol. Chem.* 279: 17090-17100.
- Venables, J.P., et al. 2005. Upregulation of the ubiquitous alternative splicing factor Tra2 β causes inclusion of a germ cell-specific exon. *Hum. Mol. Genet.* 14: 2289-2303.
- Gresko, E., et al. 2005. Covalent modification of human homeodomain interacting protein kinase 2 by SUMO-1 at Lysine 25 affects its stability. *Biochem. Biophys. Res. Commun.* 329: 1293-1299.

CHROMOSOMAL LOCATION

Genetic locus: HIPK3 (human) mapping to 11p13; *Hipk3* (mouse) mapping to 2 E2.

SOURCE

HIPK3 (H-80) is a rabbit polyclonal antibody raised against amino acids 1081-1160 mapping near the N-terminus of HIPK3 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.

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.

APPLICATIONS

HIPK3 (H-80) is recommended for detection of HIPK3 of mouse, rat 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).

HIPK3 (H-80) is also recommended for detection of HIPK3 in additional species, including equine, canine, bovine and porcine.

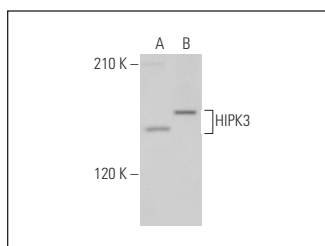
Suitable for use as control antibody for HIPK3 siRNA (h): sc-45654, HIPK3 siRNA (m): sc-45655, HIPK3 shRNA Plasmid (h): sc-45654-SH, HIPK3 shRNA Plasmid (m): sc-45655-SH, HIPK3 shRNA (h) Lentiviral Particles: sc-45654-V and HIPK3 shRNA (m) Lentiviral Particles: sc-45655-V.

Positive Controls: mouse brain extract: sc-2253 or rat testis extract: sc-2400.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



HIPK3 (H-80): sc-66920. Western blot analysis of HIPK3 expression in mouse brain (A) and rat testis (B) tissue extracts.

RESEARCH USE

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