

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Krs-1 (m): 293T Lysate: sc-121254



The Power to Question

BACKGROUND

Sterile-20 (Ste20) is a serine/threonine kinase in Saccharomyces cerevisiae that is involved in relaying signals from G protein-coupled receptors to cytosolic MAP kinase cascades. Mammalian protein kinases that display sequence similarity to Ste20 are divided into two groups, the PAK subfamily and the GCK subfamily. The PAK subfamily members contain a C-terminal catalytic domain and an N-terminal regulatory domain with a p21 Rac/Cdc42-binding site, and these kinases can activate both p38 MAPK and JNK. The GCK subfamily members contain a C-terminal regulatory domain and an N-terminal catalytic domain, and they have diverse roles in many pathways, including the activation of ERK, JNK, p38 MAPK and caspase-3. The mammalian Ste20like kinases (MST kinases), also known as Krs proteins, are members of the GCK subfamily. Krs-1 (MST-2) and Krs-2 (MST-1) are both direct substrates of caspase-3 that accelerate caspase-3 activation. MST-3 is ubiquitously expressed in mammalian tissue and can phosphorylate exogenous substrates as well as itself. MST-4 is highly expressed in placenta, thymus and peripheral blood leukocytes, and it specifically activates ERK.

REFERENCES

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- 2. Schinkmann, K., et al. 1997. Cloning and characterization of a human Ste20-like protein kinase with unusual cofactor requirements. J. Biol. Chem. 272: 28695-28703.
- Raitt, D., et al. 2000. Yeast Cdc42 GTPase and Ste20 PAK-like kinase regulate Sho1-dependent activation of the Hog1 MAPK pathway. EMBO J. 17: 4623-4631.
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- Lin, J.L., et al. 2001. MST-4, a new Ste20-related kinase that mediates cell growth and transformation via modulating ERK pathway. Oncogene. 20: 6559-6569.
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 J. Biol. Chem. 276: 19276-19285.

CHROMOSOMAL LOCATION

Genetic locus: Stk3 (mouse) mapping to 15 B3.3.

PRODUCT

Krs-1 (m): 293T Lysate represents a lysate of mouse Krs-1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

Krs-1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Krs-1 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

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

PROTOCOLS

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

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