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MEK-3 (h2): 293T Lysate: sc-176353

BACKGROUND

A family of protein kinases located upstream of the MAP kinases and responsible for their activation has been identified. The prototype member of this family, designated MAP kinase kinase, or MEK-1, specifically phosphorylates the MAP kinase regulatory threonine and tyrosine residues present in the Thr-Glu-Tyr motif of ERK. A second MEK family member, MEK-2, resembles MEK-1 in its substrate specificity. MEK-3 (or MKK-3) functions to activate p38 MAP kinase, and MEK-4 (also called SEK1 or MKK-4) activates both p38 and JNK MAP kinases. MEK-5 appears to specifically phosphorylate ERK5, whereas MEK-6 phosphorylates p38 and p38 β . MEK-7 (or MKK-7) phosphorylates and activates the JNK signal transduction pathway.

REFERENCES

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- Holland, P.M., et al. 1997. MKK7 is a stress-activated mitogen-activated protein kinase kinase functionally related to hemipterous. *J. Biol. Chem.* 272: 24994-24998.
- Wu, Z., et al. 1997. Molecular cloning and characterization of human JNKK2, a novel Jun NH₂-terminal kinase-specific kinase. *Mol. Cell. Biol.* 17: 7407-7416.

CHROMOSOMAL LOCATION

Genetic locus: MAP2K3 (human) mapping to 17q11.2.

PRODUCT

MEK-3 (h2): 293T Lysate represents a lysate of human MEK-3 transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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

MEK-3 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive MEK-3 antibodies.

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

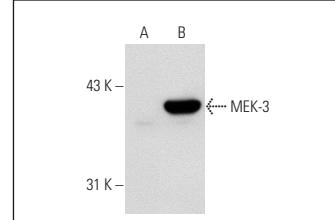
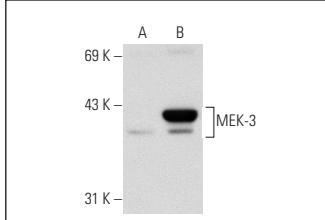
MEK-3/6 (B-1): sc-136982 is recommended as a positive control antibody for Western Blot analysis of enhanced human MEK-3 expression in MEK-3 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



MEK-3/6 (B-1): sc-136982. Western blot analysis of MEK-3 expression in non-transfected: sc-117752 (**A**) and human MEK-3 transfected: sc-176353 (**B**) 293T whole cell lysates.

MEK-3 (5F7): sc-81474. Western blot analysis of MEK-3 expression in non-transfected: sc-117752 (**A**) and human MEK-3 transfected: sc-176353 (**B**) 293T whole cell lysates.

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.