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MEK-2 (h2): 293T Lysate: sc-176551

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 MKK3) functions to activate p38 MAP kinase and MEK-4 (also called SEK1 or MKK4) activates both p38 and JNK MAP kinases. MEK-5 appears to specifically phosphorylate ERK 5, whereas MEK-6 phosphorylates p38 and p38 β . MEK-7 (or MKK7) phosphorylates and activates the JNK signal transduction pathway.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MAP2K2 (human) mapping to 19p13.3.

PRODUCT

MEK-2 (h2): 293T Lysate represents a lysate of human MEK-2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

MEK-2 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive MEK-2 antibodies. Recommended use: 10-20 μ l per lane.

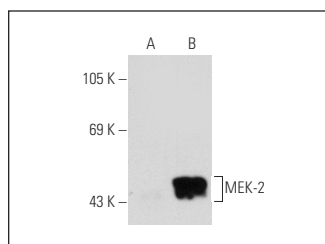
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

MEK-2 (A-1): sc-13159 is recommended as a positive control antibody for Western Blot analysis of enhanced human MEK-2 expression in MEK-2 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-2 (A-1): sc-13159. Western blot analysis of MEK-2 expression in non-transfected: sc-117752 (A) and human MEK-2 transfected: sc-176551 (B) 293T whole cell lysates.

RESEARCH USE

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