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SAPK4 (h2): 293T Lysate: sc-173544

BACKGROUND

Lipopolysaccharide has been shown to induce tyrosine phosphorylation of a unique protein, designated p38. p38 is a member of the MAP kinase family with features most closely resembling those of the *Saccharomyces cerevisiae* protein Hog1. p38 and Hog1 share a TGY phosphorylation sequence, whereas most other MAP kinase family proteins have a TEY sequence. A related protein, p38 β , has been shown to phosphorylate ATF-2 at a 20-fold higher rate than p38, suggesting distinct substrate preferences. Stress activated protein kinase-4, or SAPK4, also designated p38 δ , is a related protein that is phosphorylated by MKK6 in response to cytokines and cellular stresses.

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CHROMOSOMAL LOCATION

Genetic locus: MAPK13 (human) mapping to 6p21.31.

PRODUCT

SAPK4 (h2): 293T Lysate represents a lysate of human SAPK4 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.

APPLICATIONS

SAPK4 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive SAPK4 antibodies. Recommended use: 10-20 μ l per lane.

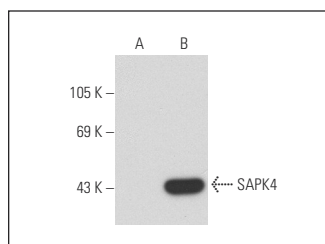
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SAPK4 (E-7): sc-46678 is recommended as a positive control antibody for Western Blot analysis of enhanced human SAPK4 expression in SAPK4 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

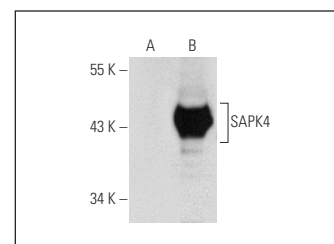
RECOMMENDED SUPPORT REAGENTS

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 MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



SAPK4 (E-7): sc-46678. Western blot analysis of SAPK4 expression in non-transfected: sc-117752 (A) and human SAPK4 transfected: sc-173544 (B) 293T whole cell lysates.



SAPK4 (20): sc-136063. Western blot analysis of SAPK4 expression in non-transfected: sc-117752 (A) and human SAPK4 transfected: sc-173544 (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.