# SAPK4 (m): 293T Lysate: sc-123351



The Power to Question

## **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 $\beta$ , 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 $\delta$ , is a related protein that is phosphorylated by MKK6 in response to cytokines and cellular stresses.

## **REFERENCES**

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- 7. Kumar, S., et al. 1997. Novel homologues of CSBP/p38 MAP kinase: activation, substrate specificity and sensitivity to inhibition by pyridinyl imidazoles. Biochem. Biophys. Res. Commun. 235: 533-538.
- 8. Wang, X.S., et al. 1997. Molecular cloning and characterization of a novel p38 mitogen activated protein kinase. J. Biol. Chem. 272: 23668-23674.

## **CHROMOSOMAL LOCATION**

Genetic locus: Mapk13 (mouse) mapping to 17 A3.3.

# **PRODUCT**

SAPK4 (m): 293T Lysate represents a lysate of mouse SAPK4 transfected 293T cells and is provided as 100  $\mu g$  protein in 200  $\mu l$  SDS-PAGE buffer.

## **APPLICATIONS**

SAPK4 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive SAPK4 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.

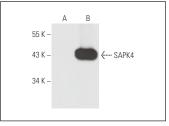
SAPK4 (E-3): sc-271292 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse SAPK4 expression in SAPK4 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

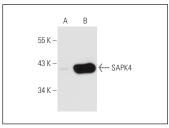
## **RECOMMENDED SUPPORT REAGENTS**

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

1) Western Blotting: use m-lgGκ BP-HRP: sc-516102 or m-lgGκ 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**





SAPK4 (E-3): sc-271292. Western blot analysis of SAPK4 expression in non-transfected: sc-117752 (A) and mouse SAPK4 transfected: sc-123351 (B) 293T whole cell I vsates.

SAPK4 (E-7): sc-46678. Western blot analysis of SAPK4 expression in non-transfected: sc-117752 (A) and mouse SAPK4 transfected: sc-123351 (B) 293T whole cell lysates.

## **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.

## **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.