SANTA CRUZ BIOTECHNOLOGY, INC.

SAPK4 (h3): 293 Lysate: sc-158947

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, p38β, 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 p38δ, is a related protein that is phosphorylated by MKK6 in response to cytokines and cellular stresses.

REFERENCES

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CHROMOSOMAL LOCATION

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

PRODUCT

SAPK4 (h3): 293 Lysate represents a lysate of human SAPK4 transfected 293 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.

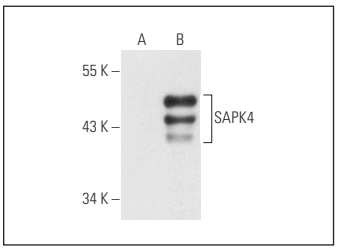
APPLICATIONS

SAPK4 (h3): 293 Lysate is suitable as a Western Blotting positive control for human reactive SAPK4 antibodies. Recommended use: 10-20 µl per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

SAPK4 (20): sc-136063 is recommended as a positive control antibody for Western Blot analysis of enhanced human SAPK4 expression in SAPK4 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



SAPK4 (20): sc-136063. Western blot analysis of SAPK4 expression in non-transfected: sc-110760 (**A**) and human SAPK4 transfected: sc-158947 (**B**) 293 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.