# 3pK (h): 293T Lysate: sc-158199



The Power to Questio

#### **BACKGROUND**

The MAPKAP kinases (for MAP kinase activated protein kinases) are a group of MAP kinase substrates which are themselves kinases. In response to activation, the MAP kinases phosphorylate downstream components on a consensus Pro-X-Ser/Thr-Pro motif. Several kinases that contain this motif have been identifed and serve as substrates for the ERK and p38 MAP kinases. These include the serine/threonine kinases Rsk-1 (also designated MAPKAP kinase-1), Rsk-2 and Rsk-3, which are phosphorylated by ERK1 and ERK2. Similarly, p38 phosphorylates and activates the serine/threonine kinases MAPKAP kinase-2 and MAPKAP kinase-3 (also designated 3pK). The serine/threonine kinases Mnk1 and Mnk2 are substrates for both ERK and p38 MAP kinases.

### **REFERENCES**

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- 8. Waskiewicz, A.J., et al. 1997. Mitogen-activated protein kinases activate the serine/threonine kinases Mnk1 and Mnk2. EMBO J. 16: 1090-1920.
- 7. Fukunaga, R., et al. 1997. Mnk1, a new MAP kinase-activated protein kinase, isolated by a novel expression screening method for identifying protein kinase substrates. EMBO J. 16: 1921-1933.

# CHROMOSOMAL LOCATION

Genetic locus: MAPKAPK3 (human) mapping to 3p21.2.

### **PRODUCT**

3pK (h): 293T Lysate represents a lysate of human 3pK transfected 293T 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.

### **RESEARCH USE**

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

#### **APPLICATIONS**

3pK (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive 3pK antibodies. Recommended use:  $10-20 \mu l$  per lane.

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

### **PROTOCOLS**

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

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