



## Product Information Sheet

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### **Polyclonal Anti- Dual specificity mitogen-activated protein kinase kinase3, *MAP2K3* (Magnetic Bead Conjugate)**

**Catalogue No.** PA1377-M

**Lot No.** 0131112027727

**Ig type** rabbit IgG

**Size** 100µg/vial

**Specificity**

Human, rat.

No cross reactivity with other proteins.

**Recommended application**

*ImmunoPrecipitation*

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminal of human MAP2K3 (320-334 aa), identical to the related mouse and rat sequence.

**Purity**

Immunogen affinity purified.

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Reconstitution**

0.2ml of distilled water will yield a concentration of 500µg/ml.

**Storage**

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

## BACKGROUND

Dual specificity mitogen-activated protein kinase kinase 3 is an enzyme that in humans is encoded by the MAP2K3 gene. The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p38-MAPK. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter. Expression of RAS oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of MAPK14, and confers oncogenic transformation of primary cells. Rampoldi et al. (1997) localized the MAP2K3 gene to 17q11.2.

## REFERENCE

1. Rampoldi L, Zimbello R, Bortoluzzi S, Tiso N, Valle G, Lanfranchi G, Danieli GA (Mar 1998). "Chromosomal localization of four MAPK signaling cascade genes: MEK1, MEK3, MEK4 and MEK5". *Cytogenet Cell Genet* 78 (3-4): 301-3.

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