



Product Information Sheet

Polyclonal Anti- Dual specificity mitogen-activated protein kinase kinase 1, *MAP2K1* (Magnetic Bead Conjugate)

Catalogue No. PA1376-M

Immunogen

Lot No. 0131112027627

A synthetic peptide corresponding to a sequence at the C-terminal of human MAP2K1 (353-367aa), identical to the related mouse and rat sequence.

Ig type rabbit IgG

Purity

Immunogen affinity purified.

Size 100µg/vial

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Specificity

Human, rat.

No cross reactivity with other proteins.

Reconstitution

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

Recommended application

ImmunoPrecipitation

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 1 is an enzyme that in humans is encoded by the MAP2K1 gene. The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon activation by a wide variety of extra- and intracellular signals. As an essential component of the MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. Rampoldi et al. (1997) localized the MAP2K1 gene to 15q22.1-q22.33.

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 MEKK5". *Cytogenet Cell Genet* 78 (3-4): 301-3.
- 2.Zheng CF, Guan KL (Jun 1993). "Cloning and characterization of two distinct human extracellular signal-regulated kinase activator kinases, MEK1 and MEK2". *J Biol Chem* 268 (15): 11435-9.

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