



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

Catalogue No. PA1376-S

Lot No. 0131112027627

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, rat. No cross reactivity with other proteins.

Recommended application

(Immunoprecipitation(IP))

Immunogen

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

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

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 MEK5". 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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