



Product Information Sheet

Monoclonal Anti-MAP Kinase, Activated (Diphosphorylated ERK-1&2) - Magnetic Bead Conjugate

Catalogue No. MA1055-M

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Lot No. 08A12

Formulation

Clone: IL-13

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

Ig type: mouse IgG1

Storage

Size: 200µl

Store at 4°C for frequent use.

Specificity

Human, mouse, rat, yeast.

No cross reactivity with other proteins.

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

Recommended application

Immunoprecipitation(IP)

BACKGROUND

In mammalian cells, a variety of extracellular stimuli generate intracellular signals that converge on a limited number of so-called mitogen-activated protein (MAP) kinase pathways. The central core of each MAP kinase (MAPK) pathway is a conserved cascade of 3 protein kinases: an activated MAPK kinase kinase (MAPKKK) phosphorylates and activates a specific MAPK kinase (MAPKK), which then activates a specific MAPK. Mek1/2 MAPK kinases are essential for mammalian development, homeostasis, and Raf-induced hyperplasia. Germline mutations in genes within the MAPK pathway cause cardio-facio-cutaneous syndrome.

REFERENCE

1. Rodriguez-Viciana, P.; Tetsu, O.; Tidyman, W. E.; Estep, A. L.; Conger, B. A.; Santa Cruz, M.; McCormick, F.; Rauen, K. A. : Germline mutations in genes within the MAPK pathway cause cardio-facio-cutaneous syndrome. *Science* 311: 1287-1290, 2006.
2. Scholl, F. A.; Dumesic, P. A.; Barragan, D. I.; Harada, K.; Bissonauth, V.; Charron, J.; Khavari, P. A. : Mek1/2 MAPK kinases are essential for mammalian development, homeostasis, and Raf-induced hyperplasia. *Dev. Cell* 12: 615-629, 2007.

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