Product Information Sheet

## Polyclonal Anti-MAPK1/3 (Magnetic Bead Conjugate)

## Catalogue No. PA1049-M

Lot No. 03A01

Ig type: rabbit $\lg G$

Size: $100 \mu \mathrm{~g} / \mathrm{via}$

## Specificity

Human, mouse, rat.
No cross reactivity with other proteins.

## Recommended application

ImmunoPrecipitation (IP)

## Immunogen

A synthetic peptide mapping at the N -terminal of the human MAPK1+3, identical to the related rat sequence.

## Purity

Immunogen affinity purified.

## Contents

Each vial contains $1 \mathrm{mg} / \mathrm{ml}$ Magnetic Bead in PBS, pH 7.2, $0.05 \mathrm{mg} \mathrm{NaN}_{3}$.

## Storage

Store at $4^{\circ} \mathrm{C}$ for frequent use.

## Description

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

## BACKGROUND

MAPK1(ERK2) shares high homology with MAPK3(ERK1). MAP kinase phosphatase as a locus of flexibility in a mitogen-activated protein kinase signaling network. Mitogen-activated protein (MAP) kinases [also known as Erks] have been established to function as important mediators of signal transduction by growth factor receptors. ERK1/ERK2-dependent activation of endogenous ribosomal transcription, while inactivation of ERK1/ERK2 causes an equally immediate reversion to the basal transcription level. ERK1/ERK2 was found to phosphorylate the architectural transcription factor UBF at amino acids 117 and 201 within HMG boxes 1 and 2, preventing their interaction with DNA. Mutation of these sites inhibited transcription activation and abrogated the transcriptional response to ERK1/ERK2.

## REFERENCE

1. Bhalla, U. S.; Ram, P. T.; lyengar, R. : MAP kinase phosphatase as a locus of flexibility in a mitogen-activated protein kinase signaling network. Science 297: 1018-1023, 2002.
2. Li, L.; Wysk, M.; Gonzalez, F. A.; Davis, R. J. : Genomic loci of human mitogen-activated protein kinases. Oncogene 9: 647-649, 1994.
