



**Product Information Sheet** 

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

Catalogue No. PA1049-M	Immunogen
	A synthetic peptide mapping at the N-terminal of the human MAPK1+3,
Lot No. 03A01	identical to the related rat sequence.
	Purity
<b>Ig type:</b> rabbit IgG	Immunogen affinity purified.
	Contents
Size: 100µg/vial	Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN $_3$ .
Specificity	Storage
Human, mouse, rat.	Store at 4°C for frequent use.
No cross reactivity with other	
proteins.	Description
	This Antagene antibody is immobilized by the covalent reaction of
Recommended application	hydrazinonicotinamide-modified antibody with formylbenzamide-modified
ImmunoPrecipitation (IP)	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.; Iyengar, 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.

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