

Product Information Sheet



Polyclonal Anti-MAPK1/3

Catalogue No. PA1049	
Lot No. 03A01	— 76КD
Ig type: rabbit IgG	
Size: 100µg/vial	_ — 45KD
Specificity	— ЗЗКО
Human, mouse, rat.	
No cross reactivity with other	- 26KD
proteins.	
Recommended application	Immunogen
Western blot	A synthetic peptide mapping at the N-terminal of the human MAPK1+3,
Immunohistochemistry(P)	identical to the related rat sequence.
	Purity
	Immunogen affinity purified.
	Application
	Western blot
	At 0.5-1 μ g/ml with the appropriate system to detect MAPK1/3 in cells
	and tissues.
	Immunohistochemistry(P)
	At 1-2µg/ml to detect MAPK1/3 in formalin fixed and paraffin
	embedded tissues. Boiling the sections is required.
	Other applications have not been tested.
	Optimal dilutions should be determined by end user.
	Contents
	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg
	Thimerosal, 0.05mg NaN ₃ .
	Reconstitution
To reorder contact us at:	0.2ml of distilled water will yield a concentration of 500µg/ml.

Antagene, Inc. Storage

Toll Free: 1(866)964-2589 At -20°C for one year. After reconstitution, at 4°C for one month. It can email: Info@antageneinc.com also be aliquotted and stored frozen at -20°C for longer time.

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.

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.