

Datasheet for 009-001-R91S**ERK1 (K71A) protein-HIS Epitope****Overview**

Description:	ERK1 (K71A) recombinant protein-HIS Epitope - 009-001-R91S
Item No.:	009-001-R91S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	ERK1 is a protein serine/threonine kinase that is a member of the extracellular signal-regulated kinases (ERKs) which are activated in response to numerous growth factors and cytokines (1). Activation of ERK1 requires both tyrosine and threonine phosphorylation that is mediated by MEK. ERK1 is ubiquitously distributed in tissues with the highest expression in heart, brain and spinal cord. Activated ERK1 translocates into the nucleus where it phosphorylates various transcription factors (e.g., Elk-1, c-Myc, c-Jun, c-Fos, and C/EBP beta). ERK1 Protein is ideal for investigators involved in Signaling Reagents, Protein Substrates, Angiogenesis, Apoptosis/Autophagy, Cancer, Cardiovascular Disease, ERK/MAPK Pathway, Invasion/Metastasis, Neurobiology, and Ser/Thr Kinases research.
Synonyms:	PRKM3, P44ERK1, P44MAPK, MAPK3, Mitogen-activated protein kinase 3, MAP kinase 3, ERT2, Extracellular signal-regulated kinase 1, ERK-1, Insulin-stimulated MAP2 kinase, MAP kinase isoform p44, p44-MAPK, Microtubule-associated protein 2 kinase, p44-ERK1
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	MAPK3
Purity/Specificity:	Recombinant full-length human ERK1 was expressed in E. coli cells using an N-Terminal his epitope. The purity was determined to be >85% by densitometry.
Relevant Links:	• NCBI - NM_002746

Application Details

Application Note:	ERK1 Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. ERK1 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~ 44kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

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