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MAPK1
Recombinant Human ERK2 GST Tag, Active

Catalog No.	CRE133A	**Quantity:**	5 µg
	CRE133B		10 µg
	CRE133C		50 µg

Alternate Names: Mitogen-activated protein kinase 1, MAP kinase 1, MAPK 1, ERT1, Extracellular signal-regulated kinase 2, ERK-2, MAP kinase isoform p42, p42-MAPK

Description: Recombinant full-length human ERK2 was expressed in *E. coli* with an N-terminal GST tag and activated by MEK1 *in vitro*.
ERK2 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. Activation of ERK2 requires both tyrosine and threonine phosphorylation that is mediated by MEK. ERK2 is ubiquitously distributed in tissues with the highest expression in heart, brain and spinal cord. Activated ERK2 translocates into the nucleus where it phosphorylates various transcription factors (Elk-1, c-Myc, c-Jun, c-Fos, and C/EBP beta).

Concentration: 0.1 mg/ml

UniProt ID: P28482

Source: *E. coli*

Molecular Weight: 68 kDa

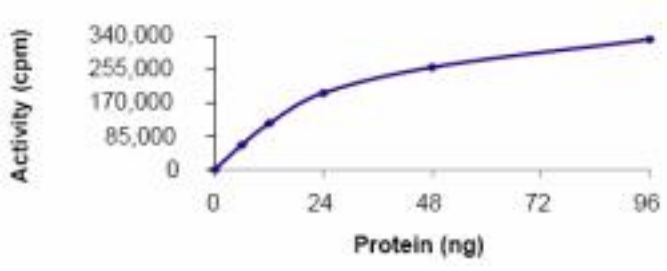
Formulation: 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol

Purity: >95% by SDS-PAGE densitometry

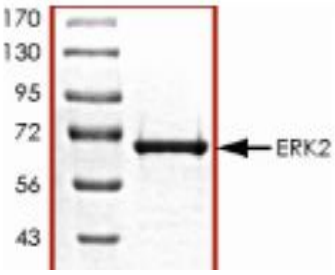
Specific Activity: 692 nmol/min/mg

Storage & Stability: Product is shipped on dry ice. Stable, as supplied, for up to 1 year at -80°C.
Briefly centrifuge the vial, aliquot and store at -80°C.
Avoid repeated handling and multiple freeze/thawing cycles.

The specific activity of ERK2 was determined to be 692 nmol /min/mg as per activity assay protocol.



The purity of ERK2 was determined to be >95% by densitometry, approx. MW 68 kDa.



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