



[Go to Product page](#)

## Datasheet for ABIN7533750 ERK2 Protein (GST tag)

### Overview

Quantity:	100 µg
Target:	ERK2 (MAPK1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ERK2 protein is labelled with GST tag.

### Product Details

Purpose:	Recombinant Human ERK2/MAPK1 Protein
Sequence:	MAAAAAAGAG PEMVRGQVFD VGPRYTNL SY IGEGAYGMVC SAYDNV NKVR VAIKKISPFE HQTYCQRTL R EIKILLRFRH ENII GINDII RAPTIEQMKD VYIVQDLMET DLYKLLKTQH LSNDHICYFL YQILRGLKYI H SANVLHRDL KPSNLLLNTT CDLKICDFGL ARVADPDHDH TGFLTEYVAT RWYRAPEIML NSKGYTKSID IWSVGCILAE MLSNRPIFPG KHYLDQLNHI LGILGSPSQE DLNCIINLKA RNYLLSLPHK NKVPWNRLFP NADSKALDLL DKMLTFNPHK RIEVEQALAH PYLEQYYDPS DEPIAEAPFK FDMELDDL PK EKLKELIFEE TARFQPGYRS
Specificity:	Met1-Ser360
Purity:	> 70 % by SDS-PAGE.
Biological Activity Comment:	1. Measured by its binding ability in a functional ELISA. Immobilized Human MAPK1 Protein at 1 µg/mL (100 µL/well) can bind ERK1/2 Rabbit mAb with a linear range of 0.017-4.92 ng/mL.

## Target Details

---

Target:	ERK2 (MAPK1)
Alternative Name:	ERK2/MAPK1 ( <a href="#">MAPK1 Products</a> )
Background:	<p>Description: ERK2 is a protein serine/threonine kinase, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. One study also suggests that this protein acts as a transcriptional repressor independent of its kinase activity. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions.</p> <p>Name: ERK,ERK-2,ERK2,ERT1,MAPK2,P42MAPK,PRKM1,PRKM2,p38,p40,p41,p41mapk,p42-MAPK,MAPK1</p>
Gene ID:	5594
UniProt:	<a href="#">P28482</a>
Pathways:	<a href="#">MAPK Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">Apoptosis</a> , <a href="#">Interferon-gamma Pathway</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">Response to Growth Hormone Stimulus</a> , <a href="#">Activation of Innate immune Response</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Hepatitis C</a> , <a href="#">Protein targeting to Nucleus</a> , <a href="#">Toll-Like Receptors Cascades</a> , <a href="#">Monocarboxylic Acid Catabolic Process</a> , <a href="#">Autophagy</a> , <a href="#">G-protein mediated Events</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a> , <a href="#">Signaling of Hepatocyte Growth Factor Receptor</a> , <a href="#">VEGFR1 Specific Signals</a> , <a href="#">BCR Signaling</a> , <a href="#">S100 Proteins</a>

## Application Details

---

Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	0.3 mg/mL
Buffer:	Supplied in 50 mM Tris,150 mM NaCl,0.1 mM EDTA,0.25 mM DTT,0.1 mM AEBSF,25 % glycerol,10 mM GSH, pH 8.0.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE

## Handling

---

which should be handled by trained staff only.

---

Storage: -80 °C

---

Storage Comment: This product is stable at  $\leq -70^{\circ}$  C for up to 1 year from the date of receipt.  
For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.