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Datasheet for ABIN7520336 **ERK2 Protein (GST tag)**



Overview

Quantity:	10 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 VGPRYTNLSY IGEGAYGMVC SAYDNVNKVR VAIKKISPFE
	HQTYCQRTLR EIKILLRFRH ENIIGINDII RAPTIEQMKD VYIVQDLMET DLYKLLKTQH
	LSNDHICYFL YQILRGLKYI HSANVLHRDL KPSNLLLNTT CDLKICDFGL ARVADPDHDH
	TGFLTEYVAT RWYRAPEIML NSKGYTKSID IWSVGCILAE MLSNRPIFPG KHYLDQLNHI
	LGILGSPSQE DLNCIINLKA RNYLLSLPHK NKVPWNRLFP NADSKALDLL DKMLTFNPHK
	RIEVEQALAH PYLEQYYDPS DEPIAEAPFK FDMELDDLPK 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.

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Target Details	
Target:	ERK2 (MAPK1)
Alternative Name:	ERK2/MAPK1 (MAPK1 Products)
Background:	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. Name: ERK,ERK-2,ERK2,ERT1,MAPK2,P42MAPK,PRKM1,PRKM2,p38,p40,p41,p41mapk,p42- MAPK,MAPK1
Gene ID:	5594
UniProt:	P28482
Pathways:	MAPK Signaling, RTK Signaling, Apoptosis, Interferon-gamma Pathway, Fc-epsilon Receptor Signaling Pathway, Response to Growth Hormone Stimulus, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Hepatitis C, Protein targeting to Nucleus, Toll-Like Receptors Cascades, Monocarboxylic Acid Catabolic Process, Autophagy, G- protein mediated Events, Signaling Events mediated by VEGFR1 and VEGFR2, Signaling of Hepatocyte Growth Factor Receptor, VEGFR1 Specific Signals, BCR Signaling, S100 Proteins
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

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	which should be handled by trained staff only.
Storage:	-80 °C
Storage Comment:	This product is stable at \leq -70° 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.