

ERK1 recombinant protein

ERK1, Active

CATALOG # AAA73017	HOST E Coli	APPLICATIONS Western Blot
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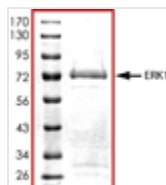
PRODUCT SYNONYMS

ERK1; Active; ERK1 recombinant protein

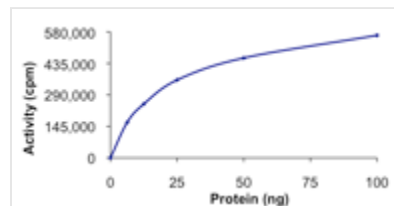
PRODUCT SPECIFICATIONS

Host	E Coli
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	Full Length
Sequence Length	1902
Applicable Applications for ERK1 recombinant protein	WB (Western Blot), Kinase Assay
Species	Human
Tag	GST tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for ERK1 recombinant protein	Description: Recombinant full-length human ERK1 was expressed in E Coli using an N-terminal GST tag. Scientific Background: ERK1 is a protein serine/threonine kinase that is a member of the extracellular signal-regulated kinases (ERKs), also known as mitogen-activated protein kinase 3 (MAPK3) which are activated in response to numerous growth factors and cytokines. 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). ERK pathway is necessary for experience-dependent plasticity and for long-term potentiation of synaptic transmission in the developing visual cortex (1). ERK activation affects the axonal growth by phosphorylation of microtubule-associated proteins and neurofilaments (2).
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Product Categories/Family for ERK1 recombinant protein	Enzymes; Active Kinases
References	1. Di Cristo, G. et.al: Requirement of ERK activation for visual cortical plasticity. Science 292: 2337-2340, 2001. 2. Forcet, C. et.al: Netrin-1-mediated axon outgrowth requires deleted in colorectal cancer-dependent MAPK activation. Nature 417: 443-447, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	91718898
NCBI GeneID	5595
NCBI Accession #	NM_002746.2
NCBI GenBank Nucleotide #	NM_002746
UniProt Accession #	P27361; Q8NHX1; A8CZ58; B0LPG3
Molecular Weight	~72 kDa
NCBI Official Full Name	Homo sapiens mitogen-activated protein kinase 3 (MAPK3), transcript variant 1, mRNA
NCBI Official Synonym Full Names	mitogen-activated protein kinase 3
NCBI Official Symbol	MAPK3
NCBI Official Synonym Symbols	ERK1; ERT2; ERK-1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; p44-ERK1; p44-MAPK
NCBI Protein Information	mitogen-activated protein kinase 3
UniProt Protein Name	Mitogen-activated protein kinase 3
UniProt Gene Name	MAPK3
UniProt Synonym Gene Names	ERK1; PRKM3; MAP kinase 3; MAPK 3; ERK-1; p44-MAPK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mapk3-recombinant-protein-e-coli-wb-western-blot-kinase-assay/73017>