Datasheet for ABIN1612952

# ERK1 Protein (AA 1-370) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | ERK1 (MAPK3) |
| Protein Characteristics: | AA 1-370 |
| Origin: | Oryza sativa |
| Source: | Yeast |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This ERK1 protein is labelled with His tag. |
| Application: | ELISA |

## Product Details

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| Sequence: | MAIMVDPPNG MGNQGKYYYS MWQTLFEIDT KYVPIKPIGR GAYGIVCSSI NRETNEKVAI KKIHNVFDNR VDALRTLREL KLLRHLRHEN VIALKDIMMP VHRRSFKDVY LVYELMDTDL HQIIKSPQGL SNDHCQYFLF QLLRGLKYLH SAEILHRDLK PGNLLVNANC DLKICDFGLA RTNSSKGQFM TEYVVTRWYR APELLLCCDN YGTSIDVWSV GCIFAELLGR KPIFPGTECL NQLKLIVNVL GTMSESDLEF IDNPKARRYI KSLPYTPGVP LASMYPHAHP LAIDLLQKML IFDPTKRISV TEALEHPYMS PLYDPSANPP AQVPIDLDID ENISADMIRE MMWHEMLHYH PEVVAAMSAR |
| Specificity: | Oryza sativa subsp. japonica (Rice) |
| Characteristics: | Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalien cells or by baculovirus infection. Be aware about differences in price and lead time. |
| Purity: | > 90 % |

## Target Details

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| Target: | ERK1 (MAPK3) |
| Alternative Name: | Mitogen-activated protein kinase 3 (MPK3) (MAPK3 Products) |
| Background: | Recommended name: Mitogen-activated protein kinase 3.<br>Short name= MAP kinase 3.<br>EC= 2.7.11.24.<br>Alternative name(s): MAP kinase 2 OsMAP3 OsMAPK2 |
| UniProt: | Q6Z437 |
| Pathways: | MAPK Signaling, RTK Signaling, Interferon-gamma Pathway, Fc-epsilon Receptor Signaling Pathway, Neurotrophin 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, Signaling Events mediated by VEGFR1 and VEGFR2, Signaling of Hepatocyte Growth Factor Receptor, VEGFR1 Specific Signals, S100 Proteins |

## Application Details

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| Comment: | The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modificated such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Concentration: | 0.2-2 mg/mL |
| Buffer: | Tris-based buffer, 50 % glycerol |
| Handling Advice: | Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to |

## Handling

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| | one week |
| Storage: | -20 °C |
| Storage Comment: | Store at -20 °C, for extended storage, conserve at -20 °C or -80 °C. |