

Recombinant Human MAPK3 protein, His-tagged

Cat. No. ERK1-125H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human MAPK3 protein (Pro75-Thr312) was fused to His-tag at N-terminus and expressed in E.coli. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 238 |
| Description | The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. |
| Form | Freeze-dried powder. Buffer: 20mM Tris, 150mM NaCl, pH8.0, containing 0.01% SKL, 5% Trehalose. |
| Molecular Mass | Predicted Molecular Mass: 31.3 kDa. Accurate Molecular Mass: 28 kDa as determined by SDS-PAGE reducing conditions. |
| Purity | >90% as determined by SDS-PAGE. |

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| Applications | Positive Control; Immunogen; SDS-PAGE; WB. |
| Stability | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| Storage | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| Concentration | 350 µg/mL |
| Reconstitution | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

GENE INFORMATION

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| Gene Name | MAPK3 |
| Official Symbol | MAPK3 |
| Synonyms | ERK1; ERT2; ERK-1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; p44-ERK1; p44-MAPK |
| Gene ID | 5595 |
| mRNA Refseq | NM_002746.3 |
| Protein Refseq | NP_002737.2 |
| MIM | 601795 |

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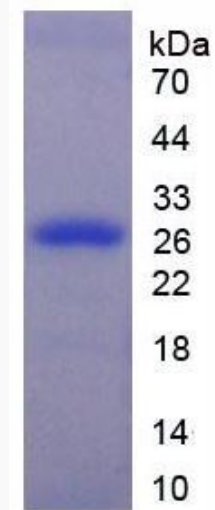
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UniProt ID

P27361

SDS-PAGE of ERK1-125H



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