# Recombinant Full Length Human MAP2K1 Protein, C-Flag-tagged

**Cat. No.** MAP2K1-234HFL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Full Length Human MAP2K1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| **Species** | Human |
| **Source** | Mammalian Cells |
| **Description** | The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. |
| **Form** | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| **Molecular Mass** | 43.3 kDa |
| **AA Sequence** | MPKKKPTPIQLNPAPDGSAVNGTSSAETNLEALQKKLEELELDEQQRKRLEAFLTQK QKVGELKDDDFEK ISELGAGNGGVVFKVSHKSSGLVMARKLIHLEIKPAIRNQIIREL QVLHECNSPYIVGFYGAFYSDGEIS ICMEHMDGGSLDQVLKKAGRIPEQILGKVSIAV IKGLTYLREKHKIMHRDVKPSNILVNSRGEIKLCDFG VSGQLIDSMANSFVGTRSYM |

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| | SPERLQGTHYSVQSDIWSMGLSLVEMAVGRYPIPPPDAKELELMFGCQVE GDAAE TPPRPRTPGRPLSSYGMDSRPPMAIFELLDYIVNEPPPKLPSGVFSLEFQDFVNKCLI KNPAERA DLKQLMVHAFIKRSDAEEVDFAGWLCSTIGLNQPSTPTHAAGVTRTRPLEQKLISEE DLAANDILDYKDDDDKV |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining. |
| **Stability** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **Storage** | Store at -80 centigrade. |
| **Concentration** | >50 ug/mL as determined by microplate BCA method. |
| **Preparation** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **Protein Families** | Druggable Genome, Protein Kinase |
| **Protein Pathways** | Acute myeloid leukemia, B cell receptor signaling pathway, Bladder cancer, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Dorso-ventral axis formation, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Melanoma, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Oocyte meiosis, Pancreatic cancer, Pathways in cancer, Prion diseases, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling |

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| | pathway, Thyroid cancer, Toll-like receptor signaling pathway, Vascular smooth muscle contraction, VEGF signaling pathway |
| **Full Length** | Full L. |

## GENE INFORMATION

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| **Gene Name** | MAP2K1 mitogen-activated protein kinase kinase 1 [ Homo sapiens (human) ] |
| **Official Symbol** | MAP2K1 |
| **Synonyms** | MEL; CFC3; MEK1; MKK1; MAPKK1; PRKMK1 |
| **Gene ID** | 5604 |
| **mRNA Refseq** | NM_002755.4 |
| **Protein Refseq** | NP_002746.1 |
| **MIM** | 176872 |
| **UniProt ID** | Q02750 |

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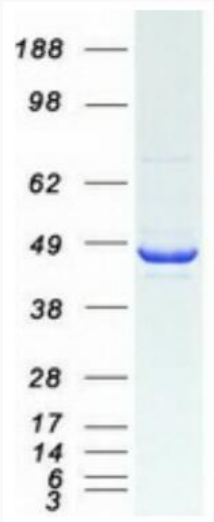


Coomassie blue staining of purified MAP2K1 protein.

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