

Active Recombinant Full Length Human MAP2K6 Protein, C-Flag-tagged

Cat. No. MAP2K6-440HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MAP2K6 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the dual specificity protein kinase family, which functions 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 phosphorylates and activates p38 MAP kinase in response to inflammatory cytokines or environmental stress. As an essential component of p38 MAP kinase mediated signal transduction pathway, this gene is involved in many cellular processes such as stress induced cell cycle arrest, transcription activation and apoptosis.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	In vitro kinase assay substrate
Molecular Mass	37.3 kDa
AA Sequence	MSQSKGKKRNPLGLKIPKEAFEQPQTSSTPPRDLDKACISIGNQNFEVKADDLEPIM ELGRGAYGVVEKM RHVPSGQIMAVKRIRATVNSQEQKRLMDLDISMRTVDCPFTV

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TFYGALFREGDVWICMELMDTSLDKFY KQVIDKGQTIPEDILGKIAVSIVKALEHLHS
 KLSVIHRDVKPSNVLINALGQVKMCDFGISGYLVDSVAK TIDAGCKPYMAPERINPEL
 NQKGYSVKSDIWSLGITMIELAILRFPYDSWGTPFQQLKQVVEEPSQLPA
 DKFSAEFVDFTSQCLKKNSKERPTYPELMQHPFFTLHESKGTDVASFVKLILGDTRT
 RPLEQKLISEEDLAANDILDYKDDDDKV

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	Amyotrophic lateral sclerosis (ALS), Fc epsilon RI signaling pathway, GnRH signaling pathway, MAPK signaling pathway, Toll-like receptor signaling pathway
Full Length	Full L.

GENE INFORMATION

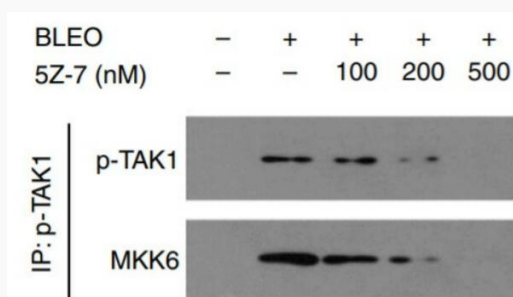
Gene Name	MAP2K6 mitogen-activated protein kinase kinase 6 [Homo sapiens (human)]
Official Symbol	MAP2K6

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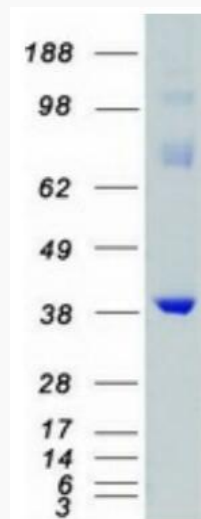
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Synonyms	MEK6; MKK6; MAPKK6; PRKMK6; SAPKK3; SAPKK-3
Gene ID	5608
mRNA Refseq	NM_002758.4
Protein Refseq	NP_002749.2
MIM	601254
UniProt ID	P52564



DNA damage activates TAK1. PSC27 cells were treated with bleomycin, an inducer of DNA strand breaks, with or without increasing concentrations of the TAK1 inhibitor 5Z-7. Cell lysates were immunoprecipitated with an anti-p-TAK1 antibody and subjected to the in vitro kinase assay with MKK6 as a substrate and radio-labeled ATP. Resulting samples were separated on a 12% SDS-PAGE gel and visualized with autoradiography.



Coomassie blue staining of purified MAP2K6 protein.

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