

# Recombinant Mouse MAP2K4 cell lysate

**Cat. No.** MAP2K4-557MCL    **Lot. No.** (See product label)

## SPECIFICATION

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b>        | Mouse MAP2K4 / JNKK1 / MKK4 derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls                                                                                                                                                                                                                                                                        |
| <b>Species</b>                 | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>                  | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Preparation method</b>      | Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized. |
| <b>Lysis buffer</b>            | Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF                                                                                                                                                                                                                                                                                                               |
| <b>Quality control Testing</b> | 12.5% SDS-PAGE Stained with Coomassie Blue                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Recommended Usage</b>       | 1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on                                                                                                 |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | SDS-PAGE for Western blot application. If dissociating conditions are required, add reducing agent prior to heating.                                                                                                                                                                                                                                                                        |
| <b>Stability</b>           | Samples are stable for up to twelve months from date of receipt at -80°C                                                                                                                                                                                                                                                                                                                    |
| <b>Storage Buffer</b>      | 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF                                                                                                                                                                                                                                                                                   |
| <b>Storage Instruction</b> | Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.                                                                                                                                                                                                       |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>           | Map2k4 mitogen-activated protein kinase kinase 4 [ Mus musculus ]                                                                                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b>     | MAP2K4                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>            | MAP2K4; mitogen-activated protein kinase kinase 4; dual specificity mitogen-activated protein kinase kinase 4; MEK 4; JNKK 1; MAPKK 4; JNK kinase 1; MAPK/ERK kinase 4; SAPK/ERK kinase 1; SAPK/Erk/kinase 1; MAP kinase kinase 4; JNK-activating kinase 1; C-JUN N-terminal kinase kinase 1; mitogen activated protein kinase kinase 4, variant 1; MEK4; MKK4; Sek1; JNKK1; Serk1; PRKMK4; |
| <b>Gene ID</b>             | 26398                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>         | NM_009157                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_033183                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | Activated TLR4 signalling, organism-specific biosystem; Apoptosis, organism-specific                                                                                                                                                                                                                                                                                                        |

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biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, conserved biosystem; FAS pathway and Stress induction of HSP regulation, organism-specific biosystem;

**Function**

ATP binding; JUN kinase kinase activity; MAP kinase kinase activity; kinase activity; mitogen-activated protein kinase kinase kinase binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; protein tyrosine kinase activity; transferase activity; transferase activity, transferring phosphorus-containing groups;