

## Recombinant Mouse MAPK1 cell lysate

Cat. No. MAPK1-001MCL Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Mouse MAPK1 / ERK2 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 SDS-PAGE for Western blot application. If dissociating conditions are required, add

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reducing agent prior to heating.

**Stability**

Samples are stable for up to twelve months from date of receipt at -80°C

**Storage 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

**Storage Instruction**

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.

## GENE INFORMATION

**Gene Name**

[Mapk1 mitogen-activated protein kinase 1 \[ Mus musculus \]](#)

**Official Symbol**

MAPK1

**Synonyms**

MAPK1; mitogen-activated protein kinase 1; ERT1; ERK-2; MAPK 1; MAPK 2; p42-MAPK; MAP kinase 1; MAP kinase 2; MAP kinase isoform p42; mitogen activated protein kinase 1; mitogen-activated protein kinase 2; extracellular signal-regulated kinase 2; ERK; Erk2; MAPK2; PRKM2; Prkm1; C78273; p41mapk; p42mapk; AA407128; AU018647; 9030612K14Rik;

**Gene ID**

[26413](#)

**mRNA Refseq**

[NM\\_001038663](#)

**Protein Refseq**

[NP\\_001033752](#)

**Pathway**

ARMS-mediated activation, organism-specific biosystem; Activated TLR4 signalling, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem;

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Acute myeloid leukemia, conserved biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Aldosterone-regulated sodium reabsorption, organism-specific biosystem;

**Function**

ATP binding; MAP kinase activity; MAP kinase activity; MAP kinase activity; RNA polymerase II carboxy-terminal domain kinase activity; kinase activity; mitogen-activated protein kinase kinase kinase binding; nucleotide binding; phosphatase binding; phosphotyrosine binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; transcription factor binding; transferase activity; transferase activity, transferring phosphorus-containing groups;

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