

Recombinant Human MAP4K2 cell lysate

Cat. No. MAP4K2-626HCL Lot. No. (See product label)

SPECIFICATION

Product Overview	Human MAP4K2 / GCK derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Human
Source	Insect Cells
Preparation method	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.
Lysis buffer	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
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	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

MAP4K2 mitogen-activated protein kinase kinase kinase 2 [Homo sapiens]

Official Symbol

MAP4K2

Synonyms

MAP4K2; mitogen-activated protein kinase kinase kinase 2; RAB8IP; BL44; GCK; MEKKK 2; GC kinase; MEK kinase kinase 2; germinal center kinase; Rab8 interacting protein; rab8-interacting protein; MAPK/ERK kinase kinase 2; germinal centre kinase (GC kinase); B lymphocyte serine/threonine protein kinase; b lymphocyte serine/threonine-protein kinase;

Gene ID

5871

mRNA Refseq

NM_004579

Protein Refseq

NP_004570

MIM

603166

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UniProt ID	Q12851
Chromosome Location	11q13.1
Pathway	Insulin Signaling, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem; TNF receptor signaling pathway, organism-specific biosystem;
Function	ATP binding; ATP binding; mitogen-activated protein kinase kinase kinase binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; small GTPase regulator activity;

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