

Recombinant Human MAPK4 293 Cell Lysate

Cat. No. MAPK4-4493HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for mitogen-activated protein kinase 4 (MAPK4) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

MAPK4 mitogen-activated protein kinase 4 [Homo sapiens]

Official Symbol

MAPK4

Synonyms

MAPK4; mitogen-activated protein kinase 4; PRKM4; Erk3 related; Erk4; ERK-4; MAPK 4; p63-MAPK; Erk3-related; MAP kinase 4; MAP kinase isoform p63; extracellular signal-regulated kinase 4; ERK3; p63MAPK;

Gene ID

5596

mRNA Refseq

NM_002747

Protein Refseq

NP_002738

MIM

176949

UniProt ID

P31152

**Chromosome
Location**

18q21.2

Pathway

B Cell Receptor Signaling Pathway, organism-specific biosystem; Focal Adhesion, organism-specific biosystem; Insulin Signaling, organism-specific biosystem; Integrin-mediated cell adhesion, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MicroRNAs in cardiomyocyte hypertrophy, organism-

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specific biosystem; Regulation of Actin Cytoskeleton, organism-specific biosystem;

Function

ATP binding; MAP kinase activity; nucleotide binding; protein homodimerization activity; protein kinase binding; protein serine/threonine kinase activity;

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