

Recombinant Human MAP2K7 293 Cell Lysate

Cat. No. MAP2K7-4508HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for mitogen-activated protein kinase kinase 7 (MAP2K7) 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.
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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	MAP2K7 mitogen-activated protein kinase kinase 7 [Homo sapiens]
Official Symbol	MAP2K7
Synonyms	MAP2K7; mitogen-activated protein kinase kinase 7; PRKMK7; dual specificity mitogen-activated protein kinase kinase 7; Jnkk2; MKK7; MEK 7; JNKK 2; MAPKK 7; SAPK kinase 4; MAPK/ERK kinase 7; MAP kinase kinase 7; JNK-activating kinase 2; c-Jun N-terminal kinase kinase 2; stress-activated protein kinase kinase 4; MAPKK7; SAPKK4; SAPKK-4;
Gene ID	5609
mRNA Refseq	NM_145185
Protein Refseq	NP_660186
MIM	603014
UniProt ID	O14733
Chromosome Location	19p13.3-p13.2
Pathway	Activated TLR4 signalling, organism-specific biosystem; CDC42 signaling events, organism-specific biosystem; Cellular roles of Anthrax toxin, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, organism-specific

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biosystem; ErbB signaling pathway, conserved biosystem;

Function

ATP binding; JUN kinase kinase activity; MAP kinase kinase activity; magnesium ion binding; mitogen-activated protein kinase kinase kinase binding; nucleotide binding; protein C-terminus binding; protein binding; protein kinase binding; protein phosphatase binding; protein serine/threonine kinase activity; protein tyrosine kinase activity;

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