

Recombinant Human MAPK8 293 Cell Lysate

Cat. No. MAPK8-4489HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for mitogen-activated protein kinase 8 (MAPK8), transcript variant JNK1-a2 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 [MAPK8 mitogen-activated protein kinase 8 \[Homo sapiens \]](#)

Official Symbol [MAPK8](#)

Synonyms [MAPK8](#); [mitogen-activated protein kinase 8](#); [PRKM8](#); [JNK](#); [JNK1](#); [JUN N terminal kinase](#); [SAPK1](#); [MAP kinase 8](#); [JUN N-terminal kinase](#); [c-Jun N-terminal kinase 1](#); [stress-activated protein kinase 1](#); [stress-activated protein kinase 1c](#); [mitogen-activated protein kinase 8 isoform JNK1 beta2](#); [mitogen-activated protein kinase 8 isoform JNK1 alpha1](#); [JNK-46](#); [JNK1A2](#); [SAPK1c](#); [JNK21B1/2](#);

Gene ID [5599](#)

mRNA Refseq [NM_139049](#)

Protein Refseq [NP_620637](#)

MIM [601158](#)

UniProt ID [P45983](#)

Chromosome Location [10q11](#)

Pathway [ATF-2 transcription factor network, organism-specific biosystem](#); [Activated TLR4 signalling, organism-specific biosystem](#); [Activation of BH3-only proteins, organism-specific biosystem](#); [Activation of BIM and translocation to mitochondria, organism-specific biosystem](#); [Activation of BMF and translocation to mitochondria, organism-](#)

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specific biosystem; Activation of the AP-1 family of transcription factors, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem;

Function

ATP binding; JUN kinase activity; MAP kinase activity; histone deacetylase binding; histone deacetylase regulator activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity;

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