

# Human MAPK8 Knockdown Cell Lysate

Cat. No. MAPK8-236HKCL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	WB-validated MAPK8 Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This kinase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochrom c-mediated cell death pathway. Studies of the mouse counterpart of this gene suggested that this kinase play a key role in T cell proliferation, apoptosis and differentiation. Several alternatively spliced transcript variants encoding distinct isoforms have been reported.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	48 kDa
<b>Notes</b>	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and

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	knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
<b>Storage</b>	Store at -20 centigrade for two years.
<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg MAPK8 KD HeLa cell lysate
<b>Protein Families</b>	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase
<b>Protein Pathways</b>	Adipocytokine signaling pathway, Colorectal cancer, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc epsilon RI signaling pathway, Focal adhesion, GnRH signaling pathway, Insulin signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway, Type II diabetes mellitus, Wnt signaling pathway
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MAPK8 mitogen-activated protein kinase 8 [ Homo sapiens (human) ]
<b>Official Symbol</b>	MAPK8
<b>Synonyms</b>	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;

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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\\_002750](#)

**Protein Refseq** [NP\\_002741](#)

**MIM** [601158](#)

**UniProt ID** [P45983](#)

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