

# Human MAP3K7 Knockdown Cell Lysate

**Cat. No.** MAP3K7-368HKCL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | WB-validated MAP3K7 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 serine/threonine protein kinase family. This kinase mediates the signaling transduction induced by TGF beta and morphogenetic protein (BMP), and controls a variety of cell functions including transcription regulation and apoptosis. In response to IL-1, this protein forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3K7P2/TAB2; this complex is required for the activation of nuclear factor kappa B. This kinase can also activate MAPK8/JNK, MAP2K4/MKK4, and thus plays a role in the cell response to environmental stresses. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.</p> |
| <b>Form</b>             | Cell-Tissue Lysis buffer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 67 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Notes</b>            | <p>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 knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.</p>                                                                                                                                                                                                                                                                                                                                                                                                                        |

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| <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 MAP3K7 KD HeLa cell lysate                                                                                                                                      |
| <b>Protein Families</b> | Druggable Genome, Protein Kinase                                                                                                                                                                                      |
| <b>Protein Pathways</b> | Adherens junction, MAPK signaling pathway, NOD-like receptor signaling pathway, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, Wnt signaling pathway |
| <b>Lysate QC</b>        | RT-qPCR; Western Blotting (WB)                                                                                                                                                                                        |

## GENE INFORMATION

|                        |                                                                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MAP3K7 mitogen-activated protein kinase kinase kinase 7 [ Homo sapiens (human) ]                                                                                                            |
| <b>Official Symbol</b> | MAP3K7                                                                                                                                                                                      |
| <b>Synonyms</b>        | MAP3K7; mitogen-activated protein kinase kinase kinase 7; TAK1; MEKK7; TGF-beta activated kinase 1; TGF-beta-activated kinase 1; transforming growth factor-beta-activated kinase 1; TGF1a; |
| <b>Gene ID</b>         | 6885                                                                                                                                                                                        |
| <b>mRNA Refseq</b>     | NM_003188                                                                                                                                                                                   |
| <b>Protein Refseq</b>  | NP_003179                                                                                                                                                                                   |

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| MIM | 602614 |
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| UniProt ID | O43318 |
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