

# Recombinant Human STK4

**Cat. No.** STK4-30251TH    **Lot. No.** (See product label)

## SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant full length MST1 protein (Human), was expressed by baculovirus in Sf9 cells using an N-terminal tag, MW ~83kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>        | The protein encoded by this gene is a cytoplasmic kinase that is structurally similar to the yeast Ste20p kinase, which acts upstream of the stress-induced mitogen-activated protein kinase cascade. The encoded protein can phosphorylate myelin basic protein and undergoes autophosphorylation. A caspase-cleaved fragment of the encoded protein has been shown to be capable of phosphorylating histone H2B. The particular phosphorylation catalyzed by this protein has been correlated with apoptosis, and its possible that this protein induces the chromatin condensation observed in this process. |
| <b>Tissue specificity</b> | Ubiquitously expressed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage buffer</b>     | Preservative: None<br>Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>            | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Sequence</b>           | Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|                            |                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Similarities</b>        | subfamily.Contains 1 protein kinase domain.Contains 1 SARAH domain.                                                                                                                                                                                          |
| <b>Full Length</b>         | Full L.                                                                                                                                                                                                                                                      |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>           | STK4 serine/threonine kinase 4 [ Homo sapiens ]                                                                                                                                                                                                              |
| <b>Official Symbol</b>     | STK4                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>            | STK4; serine/threonine kinase 4; serine/threonine-protein kinase 4; kinase responsive to stress 2; KRS2; mammalian sterile 20 like 1; MST1; yeast Ste20 like; YSK3;                                                                                          |
| <b>Gene ID</b>             | 6789                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>         | NM_006282                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>      | NP_006273                                                                                                                                                                                                                                                    |
| <b>MIM</b>                 | 604965                                                                                                                                                                                                                                                       |
| <b>Uniprot ID</b>          | Q13043                                                                                                                                                                                                                                                       |
| <b>Chromosome Location</b> | 20q11.2-q13.2                                                                                                                                                                                                                                                |
| <b>Pathway</b>             | MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem; Non-small cell lung cancer, organism-specific biosystem; Non-small cell lung cancer, conserved biosystem; Pathways in cancer, organism-specific biosystem; |
| <b>Function</b>            | ATP binding; identical protein binding; magnesium ion binding; nucleotide binding;                                                                                                                                                                           |

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