

## Recombinant Human STK39, His-tagged

**Cat. No.** STK39-29509TH    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant full length Human STK39 with N terminal His tag; 63kDa inclusive of tag. Genbank Number:                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>              | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>       | 545 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>         | This gene encodes a serine/threonine kinase that is thought to function in the cellular stress response pathway. The kinase is activated in response to hypotonic stress, leading to phosphorylation of several cation-chloride-coupled cotransporters. The catalytically active kinase specifically activates the p38 MAP kinase pathway, and its interaction with p38 decreases upon cellular stress, suggesting that this kinase may serve as an intermediate in the response to cellular stress. |
| <b>Conjugation</b>         | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Weight</b>    | 63.000kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Tissue specificity</b>  | Predominantly expressed in brain and pancreas followed by heart, lung, kidney, skeletal muscle, liver, placenta and testis.                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Biological activity</b> | Specific activity: 22 nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|                              |                                                                                                                                         |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>                  | Liquid                                                                                                                                  |
| <b>Purity</b>                | >95% by SDS-PAGE                                                                                                                        |
| <b>Storage buffer</b>        | Preservative: 150mM Imidazole<br>Constituents: 25% Glycerol, 50mM Sodium phosphate, 300mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7 |
| <b>Storage</b>               | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                               |
| <b>Sequence Similarities</b> | Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 protein kinase domain.        |

## GENE INFORMATION

|                        |                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | STK39 serine threonine kinase 39 [ Homo sapiens ]                                                                                  |
| <b>Official Symbol</b> | STK39                                                                                                                              |
| <b>Synonyms</b>        | STK39; serine threonine kinase 39; STE20/SPS1-related proline-alanine-rich protein kinase; DCHT; SPAK; STE20/SPS1 homolog (yeast); |
| <b>Gene ID</b>         | 27347                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_013233                                                                                                                          |
| <b>Protein Refseq</b>  | NP_037365                                                                                                                          |
| <b>MIM</b>             | 607648                                                                                                                             |
| <b>Uniprot ID</b>      | Q9UEW8                                                                                                                             |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 2q24.3                                                                                                                            |
| <b>Pathway</b>             | T Cell Receptor Signaling Pathway, organism-specific biosystem; TCR signaling in naive CD4+ T cells, organism-specific biosystem; |
| <b>Function</b>            | ATP binding; nucleotide binding; protein kinase binding; receptor signaling protein serine/threonine kinase activity;             |

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