

## Recombinant Human Testis-Specific Serine Kinase 1B, GST-tagged

**Cat. No.** TSSK1B-1113H    **Lot. No.** (See product label)

### SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Product Overview</b>  | Recombinant full-length human TSSK1B was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>            | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>       | TSSK1B (testis-specific serine kinase 1B) is a member of a unique subfamily of protein kinases belonging to the AMPK branch on the human kinome tree. TSSK1B is a serine/threonine kinases that is highly expressed in testis and lower express in pancreas, and weak expression in a few other tissues. TSSK members are present in the equatorial segment of human sperm. TSSK1B share 72% amino acid identity and 83% identity in the kinase domain with other family TSSK members and the TSSK1 gene is intronless. In vitro kinase assay shows phosphorylation of TSKS by TSSK1 and TSSK2. |
| <b>Applications</b>      | Kinase Assay; Western Blot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Weight</b>  | 71kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Expression System</b> | Sf9 insect cells using baculovirus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>              | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific Activity</b> | 60nmol/min/mg                                                                                                                                                                                                                                                       |
| <b>Purity</b>            | >80%                                                                                                                                                                                                                                                                |
| <b>Concentration</b>     | 0.1 ug/ul                                                                                                                                                                                                                                                           |
| <b>Sequences</b>         | Full-length                                                                                                                                                                                                                                                         |
| <b>Storage</b>           | Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on dry ice. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">TSSK1B testis-specific serine kinase 1B [ Homo sapiens ]</a>                                                                                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b> | <a href="#">TSSK1B</a>                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>        | TSSK1B; TSSK1; FKSG81; SPOGA4; STK22D; SPOGA1; STK22A; testis-specific serine/threonine-protein kinase 1; TSK-1; testis-specific serine kinase 1B; TSSK-1; testis-specific kinase 1; spermiogenesis associated 4; serine/threonine kinase FKSG81; testis-specific serine kinase 1; serine/threonine-protein kinase 22A; EC 2.7.11.1; EC 2.7.11serine/threonine kinase 22D (spermiogenesis associated) |
| <b>Gene ID</b>         | <a href="#">83942</a>                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>     | <a href="#">NM_032028</a>                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>  | <a href="#">NP_114417</a>                                                                                                                                                                                                                                                                                                                                                                             |

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|----------------------------|--------------------------------------------------------------------------------------------------|
| <b>MIM</b>                 | 610709                                                                                           |
| <b>UniProt ID</b>          | Q9BXA7                                                                                           |
| <b>Chromosome Location</b> | 5q22.2                                                                                           |
| <b>Function</b>            | ATP binding; magnesium ion binding; nucleotide binding; protein serine/threonine kinase activity |

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