

**Datasheet for 009-001-T62S****STK31 protein-GST fusion****Overview**

|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| <b>Description:</b>  | STK31 recombinant protein-GST fusion protein - 009-001-T62S |
| <b>Item No.:</b>     | 009-001-T62S                                                |
| <b>Size:</b>         | 20 µg                                                       |
| <b>Origin:</b>       | Human                                                       |
| <b>Expressed in:</b> | Sf9 cells                                                   |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Background:</b>        | STK31 is a serine/threonine protein kinase that contains a tudor domain found in RNA-interacting proteins, and a coiled-coil domain. Tudor domains are found in many eukaryotic organisms and have been implicated in protein-protein interactions in which methylated protein substrates bind to these domains. The STK31 gene is conserved across many species and was originally identified as a gene expressed in mouse spermatogonia but not in somatic tissues (1). STK31 has been shown to be specifically expressed in the human testis. STK31 Protein is ideal for investigators involved in Signaling Proteins, Cellular Proteins, Cardiovascular Disease, ERK/MAPK Pathway, Neurobiology, PKA/PKC Pathway, and Ser/Thr Kinases research. |
| <b>Synonyms:</b>          | SGK396, TDRD8, Serine/threonine-protein kinase 31, Serine/threonine-protein kinase NYD-SPK, Sugen kinase 396, SgK396, STK31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species of Origin:</b> | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Expressed in:</b>      | Sf9 cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Type:</b>              | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**Target Details**

|                            |                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>          | STK31                                                                                                                                                                                                 |
| <b>Purity/Specificity:</b> | Recombinant human STK31 (496-end) was expressed by baculovirus in Sf9 insect cell using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >80% by densitometry. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li><a href="#">NCBI - NM_031414</a></li></ul>                                                                                                                      |

## Application Details

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| <b>Application Note:</b> | STK31 Protein is stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. STK31 Protein is suitable for use in Western Blot. Expect a band approximately ~86kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                |
| <b>WB:</b>               | User Optimized                                                                                                                                                                                                                                                                                                                 |

## Formulation

|                        |                           |
|------------------------|---------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered) |
| <b>Concentration:</b>  | 0.1 µg/µL                 |
| <b>Buffer:</b>         | See application note.     |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Dry Ice                                                                                                                                                                                                                                 |
| <b>Storage Condition:</b>  | Store product at –70°C. 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. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                   |

## Disclaimer

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