

## Active Recombinant Human STK36, GST-tagged

**Cat. No.** STK36-264H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human STK36 (1-457) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 1-457 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | STK36 is a member of the serine/threonine kinase family and is similar to a protein which plays a key role in the Hedgehog signaling pathway. STK36 is a positive regulator of the GLI zinc-finger transcription factors and controls the activity of GLI1 and GLI2 by opposing the effect of SUFU. STK36 is highly expressed in fetal lung and adult testis. STK36 is a target for the treatment of gastrointestinal cancers since the Hedgehog signaling pathway is frequently activated in certain kinds of gastrointestinal cancers. Defects in the STK36 gene may lead to congenital hydrocephalus, possibly due to a functional defect in motile cilia. |
| <b>Form</b>             | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Bio-activity</b>     | The specific activity of STK36 was determined to be 0.6 nmol /min/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | ~87 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | >80% by densitometry                                                                                                                                                                                                                             |
| <b>Applications</b>     | Kinase Assay, Western Blot                                                                                                                                                                                                                       |
| <b>Storage</b>          | Store product at –70 centigrade. 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>Concentration</b>    | 0.1 µg/µl                                                                                                                                                                                                                                        |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                  |
| <b>Gene Name</b>        | STK36 serine/threonine kinase 36 [ Homo sapiens ]                                                                                                                                                                                                |
| <b>Official Symbol</b>  | STK36                                                                                                                                                                                                                                            |
| <b>Synonyms</b>         | STK36; serine/threonine kinase 36; serine/threonine kinase 36 (fused homolog, Drosophila); serine/threonine-protein kinase 36; FU; fused homolog (Drosophila); KIAA1278; fused homolog; DKFZp434N0223;                                           |
| <b>Gene ID</b>          | 27148                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>      | NM_001243313                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>   | NP_001230242                                                                                                                                                                                                                                     |
| <b>MIM</b>              | 607652                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>       | Q9NRP7                                                                                                                                                                                                                                           |
| <b>Chromosome</b>       | 2q35                                                                                                                                                                                                                                             |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| Location |                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pathway  | Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Hedgehog Signaling Pathway, organism-specific biosystem; Hedgehog signaling events mediated by Gli proteins, organism-specific biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem; Pathways in cancer, organism-specific biosystem; |
| Function | ATP binding; ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; transcription factor binding;                                                                                                                                                                                            |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA