

## Active Recombinant Human KIAA1804, GST-tagged

**Cat. No.** KIAA1804-85H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human MLK4 (1-557) 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>    | 1-557 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | MLK4 or mixed lineage kinase 4 belongs to the superfamily of MAP kinase kinase kinases (MAP3K1) which contain both ser/thr and tyr kinases activity in their catalytic domains. The structure of this kinase family incorporates an N-terminal Src homology (SH3) domain, followed by the kinase domain, a leucine zipper region, and a CDC42 /RAC -interactive binding (CRIB) motif, but divergent C-terminal regions. MLK4 is highly expressed in kidney and pancreas. MLK4 is a negative regulator of TLR4. |
| <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 MLK4 was determined to be 22 nmol/min/mg as per activity assay protocol.                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | ?~61 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | 1-557                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

 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>           | The purity of MLK4 was determined to be >80% by densitometry, approx.                                                                                                                                                                   |
| <b>Applications</b>     | Kinase Assay; Western Blot                                                                                                                                                                                                              |
| <b>Stability</b>        | 1 yr at –70oC from date of shipment.                                                                                                                                                                                                    |
| <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. |
| <b>Concentration</b>    | 0.1 ug/ul                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                         |
| <b>Gene Name</b>        | KIAA1804?mixed lineage kinase 4 [?Homo sapiens?(human) ]                                                                                                                                                                                |
| <b>Official Symbol</b>  | KIAA1804                                                                                                                                                                                                                                |
| <b>Synonyms</b>         | KIAA1804; MLK4; dJ862P8.3; RP5-862P8.2; mixed lineage kinase 4; mitogen-activated protein kinase kinase kinase MLK4; EC 2.7.11.25                                                                                                       |
| <b>Gene ID</b>          | 84451                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>      | NM_032435                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>   | NP_115811                                                                                                                                                                                                                               |
| <b>MIM</b>              | 614793                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>       | Q5TCX8                                                                                                                                                                                                                                  |

 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>Chromosome<br/>Location</b> | 1q42                                                                              |
| <b>Function</b>                | ATP binding; MAP kinase kinase kinase activity; protein homodimerization activity |