

## Recombinant Human UHMK1 , GST-tagged

Cat. No. UHMK1-7027H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full-length human UHMK1 (KIS) 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>    | Full length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | UHMK1(KIS) or U2AF homology motif (UHM) kinase 1 is a serine/threonine protein kinase that promotes cell cycle progression through G1 phase. UHMK1 phosphorylates the cyclin-dependent kinase inhibitor 1B (p27Kip1) and this results in its export to the nucleus where it undergoes degradation. UHMK1 is a growth factor-dependent nuclear kinase which can regulate cell cycle progression. Elevated levels of UHMK1 protein in leukemia cells has been shown to promote cell cycle progression. UHMK1 has also been shown to function in the adult nervous system where it is highly expressed and the gene has been associated with schizophrenia. |
| <b>Form</b>             | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | ~65 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | >70%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

 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>Applications</b>        | Western Blot                                                                                                                                                                                               |
| <b>Storage</b>             | Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.                                           |
| <b>Concentration</b>       | 0.05 µg/µl                                                                                                                                                                                                 |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                            |
| <b>Gene Name</b>           | UHK1 U2AF homology motif (UHM) kinase 1 [ Homo sapiens ]                                                                                                                                                   |
| <b>Official Symbol</b>     | UHK1                                                                                                                                                                                                       |
| <b>Synonyms</b>            | UHK1; U2AF homology motif (UHM) kinase 1; serine/threonine-protein kinase Kist; KIS; Kist; KIS protein kinase; kinase interacting with leukemia-associated gene (stathmin); KIST; FLJ23015; DKFZp434C1613; |
| <b>Gene ID</b>             | 127933                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>         | NM_001184763                                                                                                                                                                                               |
| <b>Protein Refseq</b>      | NP_001171692                                                                                                                                                                                               |
| <b>MIM</b>                 | 608849                                                                                                                                                                                                     |
| <b>UniProt ID</b>          | Q8TAS1                                                                                                                                                                                                     |
| <b>Chromosome Location</b> | 1q23.1                                                                                                                                                                                                     |
| <b>Function</b>            | ATP binding; RNA binding; nucleotide binding; protein binding; protein                                                                                                                                     |

 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

serine/threonine kinase activity; ribonucleoprotein complex binding; transferase activity;

 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