

## Recombinant Human DAPK2, GST-tagged, Active

Cat. No. DAPK2-290H    Lot. No. (See product label)

### SPECIFICATION

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>      | Recombinant human full-length DAPK2 was expressed by baculovirus in <i>Sf9</i> insect cell/susing a N-terminal GST tag. MW= 67kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>                | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>           | DAPK2 or death-associated protein kinase 2 belongs to a family of proapoptotic Ca <sup>2+</sup> /calmodulin-regulated serine/threonine kinases. Overexpression of DAPK2 induces cell apoptosis. DAPK2 has been shown to be a novel Sp1-dependent target gene for E2F1 and Krüppel-like factor 6 (KLF6) in cell death response. Both E2F1 and KLF6 strongly activate the DAPK2 promoter. DAPK2 plays a role in granulopoiesis where it is highly expressed. $\beta$ -catenin can block anoikis of malignant kidney and intestinal epithelial cells and promote their anchorage-independent growth by down-regulating DAPK2. $\beta$ -catenin-induced down-regulation of DAPK2 requires the presence of the transcription factor TCF-4. |
| <b>Sequence</b>              | Full-length.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Applications</b>          | Kinase Assay, Western Blot.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage And Stability</b> | Store product at $-70^{\circ}\text{C}$ . 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

 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

**GENE INFORMATION**

|                            |                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | DAPK2 death-associated protein kinase 2 [ Homo sapiens ]                                                                                      |
| <b>Synonyms</b>            | DAPK2; death-associated protein kinase 2; DRP1; DRP-1; MGC119312; DAP kinase 2; OTTHUMP00000163874; DAP-kinase-related protein 1; EC 2.7.11.1 |
| <b>Gene ID</b>             | 23604                                                                                                                                         |
| <b>mRNA Refseq</b>         | NM_014326                                                                                                                                     |
| <b>Protein Refseq</b>      | NP_055141                                                                                                                                     |
| <b>UniProt ID</b>          | Q9UIK4                                                                                                                                        |
| <b>Chromosome Location</b> | 15q22.31                                                                                                                                      |
| <b>Pathway</b>             | Bladder cancer; Pathways in cancer                                                                                                            |
| <b>Function</b>            | ATP binding; calmodulin binding; nucleotide binding ; protein serine/threonine kinase activity 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

PDB rendering based  
on 1wmk.

