

## Active Recombinant Human DYRK2, GST-tagged

**Cat. No.** DYRK2-1397H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full-length human DYRK2 was expressed in E. coli cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | DYRK2 belongs to a family of protein kinases whose members are presumed to be involved in cellular growth and/or development. The family is defined by structural similarity of their kinase domains and their capability to autophosphorylate on tyrosine residues. DYRK2 has demonstrated tyrosine autophosphorylation and catalyzed phosphorylation of histones H3 and H2B in vitro. Two isoforms of DYRK2 have been isolated. The predominant isoform, isoform 1, lacks a 5" terminal insert. |
| <b>Form</b>             | Recombinant protein stored in 50mM tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Bio-activity</b>     | The specific activity of DYRK2 was determined to be 1250 nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | ~95 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | > 75%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Applications</b>     | Kinase Assay, Western Blot                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>           | DYRK2 dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2 [ Homo sapiens (human) ]                                                                                                                                         |
| <b>Official Symbol</b>     | DYRK2                                                                                                                                                                                                                                   |
| <b>Synonyms</b>            | DYRK2; dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2; dual specificity tyrosine-phosphorylation-regulated kinase 2; EC 2.7.12.1; EC 2.7.12                                                                           |
| <b>Gene ID</b>             | 8445                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>         | NM_006482                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>      | NP_006473                                                                                                                                                                                                                               |
| <b>MIM</b>                 | 603496                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>          | Q92630                                                                                                                                                                                                                                  |
| <b>Chromosome Location</b> | 12q15                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | p53 pathway                                                                                                                                                                                                                             |
| <b>Function</b>            | ATP binding; magnesium ion binding; protein serine/threonine kinase activity                                                                                                                                                            |

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