

## DYRK1B recombinant protein

DYRK1B, Active

|                              |                                 |                                     |
|------------------------------|---------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA73396</b> | HOST<br><b>Sf9 insect cells</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|---------------------------------|-------------------------------------|

### PRODUCT SYNONYMS

DYRK1B; Active; MIRK; DYRK1B recombinant protein

### PRODUCT SPECIFICATIONS

|                                                        |                                                                                                                                                                                                                                                |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                   | Sf9 insect cells                                                                                                                                                                                                                               |
| Form/Format                                            | Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                            |
| Applicable Applications for DYRK1B recombinant protein | WB (Western Blot), Kinase Assay                                                                                                                                                                                                                |
| Tag                                                    | GST                                                                                                                                                                                                                                            |
| Species                                                | Human                                                                                                                                                                                                                                          |
| Dry Ice Note                                           | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                             |
| Preparation and Storage                                | Store product at -70 degree 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. |

### IMAGES



#### SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



#### Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

### ADDITIONAL INFORMATION

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| Related Product Information for DYRK1B recombinant protein | <p>Recombinant full-length human DYRK1B was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is BC018751.</p> <p>DYRK1B (Dual specificity tyrosine-phosphorylation-regulated kinase 1B) is a member of the evolutionarily conserved DYRK family with key roles in the control of cell proliferation and differentiation. DYRK1B acts in G0/G1 to maintain cells in growth arrest and quiescence by targeting cyclin D1 for proteasomal degradation by phosphorylating a threonine residue close to the C terminus. Paradoxically, DYRK1B can also stabilize other proteins by phosphorylation as illustrated by the phosphorylation by DYRK1B of p27Kip1 on Ser10 during the G0 phase of the cell cycle. Deregulation of DYRK1B such as gene amplification, overexpression and/or constitutive activation has been observed in multiple types of cancer.</p> |
| Product Categories/Family for DYRK1B recombinant protein   | <a href="#">Protein Kinases</a> ; <a href="#">AKT/PKB Pathway</a> ; <a href="#">Apoptosis/Autophagy</a> ; <a href="#">Cancer</a> ; <a href="#">Cardiovascular Disease</a> ; <a href="#">Inflammation</a> ; <a href="#">Invasion/Metastasis</a> ; <a href="#">Metabolic Disorder</a> ; <a href="#">Neurobiology</a> ; <a href="#">NfκB Pathway</a> ; <a href="#">Ser/Thr Kinases</a> ; <a href="#">WNT Signaling</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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| References | 1. Becker W. Emerging role of DYRK family protein kinases as regulators of protein stability in cell cycle control. Cell Cycle. 2012 11:3389-94.<br>2. Deng X, Mercer SE, Shah S, Ewton DZ, Friedman E. The cyclin-dependent kinase inhibitor p27Kip1 is stabilized in G(0) by Mirk/dyrk1B kinase. J Biol Chem. 2004 279:22498-504. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------|
| NCBI GI #                        | 17511802                                                                             |
| NCBI GeneID                      | 9149                                                                                 |
| Molecular Weight                 | 106.0 kDa                                                                            |
| NCBI Official Full Name          | Homo sapiens dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1B, mRNA |
| NCBI Official Synonym Full Names | dual specificity tyrosine phosphorylation regulated kinase 1B                        |
| NCBI Official Symbol             | DYRK1B                                                                               |
| NCBI Official Synonym Symbols    | MIRK; AOMS3                                                                          |
| NCBI Protein Information         | dual specificity tyrosine-phosphorylation-regulated kinase 1B                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/dyrk1b-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73396>