

Recombinant Human DYRK1A

Cat. No. DYRK1A-26456TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human DYRK1A protein with an N terminal proprietary tag; predicted mwt: 35.53 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	90 amino acids
Description	This gene encodes a member of the Dual-specificity tyrosine phosphorylation-regulated kinase (DYRK) family. This member contains a nuclear targeting signal sequence, a protein kinase domain, a leucine zipper motif, and a highly conservative 13-consecutive-histidine repeat. It catalyzes its autophosphorylation on serine/threonine and tyrosine residues. It may play a significant role in a signaling pathway regulating cell proliferation and may be involved in brain development. This gene is a homolog of Drosophila mnbr (minibrain) gene and rat Dyrk gene. It is localized in the Down syndrome critical region of chromosome 21, and is considered to be a strong candidate gene for learning defects associated with Down syndrome. Alternative splicing of this gene generates several transcript variants differing from each other either in the 5' UTR or in the 3' coding region. These variants encode at least five different isoforms.
Molecular Weight	35.530kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	NQGNQAYQNRPVAAANTLDFGQNGAMDVNLTVYSNPRQETGIAGHPTYQFSANTGP AHYMTEGHLTMRQGADREESPMTGVCVQQSPVAS

GENE INFORMATION

Gene Name	DYRK1A dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A [Homo sapiens]
Official Symbol	DYRK1A
Synonyms	DYRK1A; dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A; DYRK, DYRK1, MNBH; dual specificity tyrosine-phosphorylation-regulated kinase 1A;
Gene ID	1859
mRNA Refseq	NM_001396
Protein Refseq	NP_001387
MIM	600855
Uniprot ID	Q13627
Chromosome Location	21q22.13

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Pathway	Cell Cycle, Mitotic, organism-specific biosystem; G0 and Early G1, organism-specific biosystem; Hedgehog Signaling Pathway, organism-specific biosystem; Mitotic G1-G1/S phases, organism-specific biosystem;
Function	ATP binding; kinase activity; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein binding;

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