

Recombinant Human DYRK1A Protein, GST-tagged

Cat. No. DYRK1A-2982H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Human DYRK1A partial ORF (NP_001387, 674 a.a. - 763 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source Wheat Germ

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 mnb (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. [provided by RefSeq, Jul 2008]

Molecular Mass 35.53 kDa

AA Sequence NQGNQAYQNRPVAANTLDFGQNGAMDVNLTVYSNPRQETGIAGHPTYQFSANTGP
AHYMTEGHLTMRQGADREESPMTGVCVQQSPVASS

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Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; hMNB; MNB/DYRK protein kinase; serine/threonine kinase MNB; mnb protein kinase homolog hp86; protein kinase minibrain homolog; dual specificity YAK1-related kinase; serine/threonine-specific protein kinase; MNB; DYRK; HP86; MNBH; MRD7; DYRK1;
Gene ID	1859
mRNA Refseq	NM_001396
Protein Refseq	NP_001387

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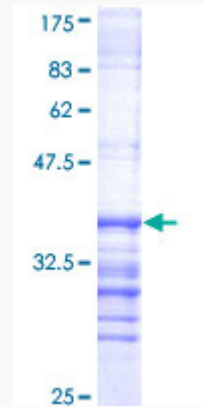
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MIM 600855

UniProt ID Q13627

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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