

Recombinant Full Length Human DYRK3 Protein, GST-tagged

Cat. No. DYRK3-4092HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human DYRK3 full-length ORF (AAH15501, 1 a.a. - 568 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	568 amino acids
Description	This gene product belongs to the DYRK family of dual-specificity protein kinases that catalyze autophosphorylation on serine/threonine and tyrosine residues. The members of this family share structural similarity, however, differ in their substrate specificity, suggesting their involvement in different cellular functions. The encoded protein has been shown to autophosphorylate on tyrosine residue and catalyze phosphorylation of histones H3 and H2B in vitro. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
Molecular Mass	88.22 kDa
AA Sequence	MKWKEKLG DGVYDTFMMIDETKCPPCSNVL CNPSEPPPPRRLNMTTEQFTGDHTQ HFLDGGEMKVEQLFQEFGNRKSNTIQSDGISDSEKCSPTVSQ GKSSDCLNTVKSNS SSKAPKVVPLTPEQALKQYKHHLTAYEKLEIINYPEIYFVGPNAKKRHGVIGPNNGG YDDADGAYIHVPRDHLAYRYEVLKIIGKGSFGQVARVYDHKLRQYVALKMVRNEKRF HRQAAEEIRILEHLKKQDKTGSMNVIIHMLESFTFRNHVCM AFELLSIDL YELIKKNKFQ

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GFSVQLVHKFAQSILQSLDALHKNKIIHCDLKPENILLKHHGRSSTKVIDFGSSCFEYQ
 KLYTYIQSRFYRAPEIILGSRYSTPIDIWSFGCILAELLTGQPLFPGEDEGDQLACMME
 LLGMPPPKLLEQSKRAKYFINSKGIIPRYCSVTTQADGRVVLVGGRSRRGKKRGPPG
 SKDWGTALKGDDYLFIEFLKRCLHWDPSARLTPAQALRHPWISKSVPRPLTTIDKV
 SGKRVVNPASAFQGLGSKLPPVVGIANKLANLMSETNGSIPLCSVLPKLIS

Applications
 Kinase Assay
 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 DYRK3 dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3 [Homo sapiens]

Official Symbol DYRK3

Synonyms DYRK3; dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3; dual specificity tyrosine-phosphorylation-regulated kinase 3; dual specificity tyrosine (Y) phosphorylation regulated kinase 5; hYAK3 2; protein kinase Dyrk3; RED; REDK; regulatory erythroid kinase; dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 5; DYRK5; hYAK3-2;

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Gene ID	8444
mRNA Refseq	NM_001004023
Protein Refseq	NP_001004023
MIM	603497
UniProt ID	O43781

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