

DYRK2 Protein, Human (GST)

Cat. No.:	HY-P701672
Synonyms:	DYRK2; Dual specificity tyrosine-phosphorylation-regulated kinase 2
Species:	Human
Source:	E. coli
Accession:	Q92630 (L2-S601)
Gene ID:	8445
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	DYRK2, a serine/threonine-protein kinase, intricately regulates diverse cellular processes, including the mitotic cell cycle, cell proliferation, apoptosis, cytoskeleton organization, and neurite outgrowth. Operating partially through its involvement in ubiquitin-dependent proteasomal protein degradation, DYRK2 functions downstream of ATM, phosphorylating p53/TP53 at 'Ser-46' to contribute to DNA damage-induced apoptosis. Additionally, DYRK2 exerts its influence on multiple substrates, including NFATC1, EIF2B5, CRMP2/DPYSL2, CRMP4/DPYSL3, and more, impacting various signaling pathways and cellular functions. By participating in the phosphorylation and subsequent degradation of key regulators like MYC, JUN, GLI2, and GLI3, DYRK2 finely tunes the progression through the mitotic cell cycle and cell proliferation. Notably, its role in cytoskeleton organization and neurite outgrowth is manifested through the phosphorylation of DCX and DPYSL2. The multifaceted kinase DYRK2 emerges as a central player in the orchestration of crucial cellular processes through its precise modulation of diverse substrates.
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Caution: Product has not been fully validated for medical applications. For research use only.

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