

DYRK2/4 (Phospho Tyr382/264) rabbit pAb

Catalog No :	YP1736
Reactivity :	Human;Mouse;Rat
Applications :	WB
Target :	DYRK2/4
Gene Name :	DYRK2
Protein Name :	DYRK2/4 (Phospho-Tyr382/264)
Human Gene Id :	8445
Human Swiss Prot No :	Q92630
Mouse Gene Id :	69181
Mouse Swiss Prot No :	Q5U4C9
Immunogen :	Synthesized peptide derived from human DYRK2/4 (Phospho-Tyr382/264)
Specificity :	This antibody detects endogenous levels of DYRK2/4 (Phospho-Tyr382/264) at Human, Mouse,Rat
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000
Purification :	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 66kD**Background :** DYRK2 belongs to a family of protein kinases whose members are presumed to be involved in cellular growth and/or development. The family is defined by structural similarity of their kinase domains and their capability to autophosphorylate on tyrosine residues. DYRK2 has demonstrated tyrosine autophosphorylation and catalyzed phosphorylation of histones H3 and H2B in vitro. Two isoforms of DYRK2 have been isolated. The predominant isoform, isoform 1, lacks a 5' terminal insert. [provided by RefSeq, Jul 2008],**Function :** catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,cofactor:Manganese.,enzyme regulation:Autophosphorylates on tyrosine residues.,function:Role in the regulation of cellular growth and/or development. Regulates TP53 by phosphorylation on Ser-46 to induce apoptosis in response to DNA damage, functioning downstream of ATM. Inactivates GYS1 by phosphorylation at Ser-641, and potentially also a second phosphorylation site, thus regulating glycogen synthesis. Phosphorylates EIF2B5 at Ser-544, enabling its subsequent phosphorylation and inhibition by GSK3, and may play a more general role in the priming of GSK3 substrates.,PTM:Phosphorylated on serine/threonine residues.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MNB/DYRK subfamily.,similarity:Contains 1 protein kinase domain.,subcellular location:Translocates into th**Subcellular Location :** Cytoplasm. Nucleus. Translocates into the nucleus following DNA damage.**Expression :** Testis, after the onset of spermatogenesis.

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