DYRK2/4 (Phospho-Tyr382/264) mouse mAb

Catalog No	BYmab-10507
Isotype	IgG
Reactivity	Human; Mouse;Rat
Applications	WB
Gene Name	DYRK2
Protein Name	DYRK2/4 (Phospho-Tyr382/264)
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, and 0.163% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Dual specificity tyrosine-phosphorylation-regulated kinase 2 (EC 2.7.12.1)
Observed Band	
Cell Pathway	Cytoplasm. Nucleus. Translocates into the nucleus following DNA damage.
Tissue Specificity	Testis, after the onset of spermatogenesis.
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
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 caMABility 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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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