



# DYRK1A/B (Phospho-Tyr321/273) rabbit pAb

<b>Catalog No</b>	BYab-10441
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human; Mouse;Rat
<b>Applications</b>	WB
<b>Gene Name</b>	DYRK1A DYRK MNB MNBH
<b>Protein Name</b>	DYRK1A/B (Phospho-Tyr321/273)
<b>Immunogen</b>	Synthesized peptide derived from human DYRK1A/B (Phospho-Tyr321/273)
<b>Specificity</b>	This antibody detects endogenous levels of DYRK1A/B (Phospho-Tyr321/273) at Human, Mouse,Rat
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.91% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	Dual specificity tyrosine-phosphorylation-regulated kinase 1A (EC 2.7.12.1) (Dual specificity YAK1-related kinase) (HP86) (Protein kinase minibrain homolog) (MNBH) (hMNB)
<b>Observed Band</b>	
<b>Cell Pathway</b>	Nucleus . Nucleus speckle .
<b>Tissue Specificity</b>	Ubiquitous. Highest levels in skeletal muscle, testis, fetal lung and fetal kidney.
<b>Function</b>	alternative products:Additional isoforms seem to exist,catalytic activity:ATP + a protein = ADP + a phosphoprotein.,developmental stage:Expressed in the developing central nervous system.,disease:Overexpressed 1.5-fold in fetal Down syndrome brain.,enzyme regulation:Inhibited by RANBP9.,function:May play a rôle in a signaling pathway regulating nuclear functions of cell proliferation. Phosphorylates serine, threonine and tyrosine residues in its sequence and in exogenous substrates.,PTM:Autophosphorylated on tyrosine residues.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MNB/DYRK subfamily.,similarity:Contains 1 protein kinase

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domain.,subunit:Interacts RAD54L2/ARIP4 (By similarity). Interacts with RANBP9.,tissue specificity:Ubiquitous. Highest levels in skeletal muscle, testis, fetal lung and fetal kidney.,

**Background**

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' co

**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.

**Products Images**