



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

Catalog No	YP-Ab-10441
Isotype	IgG
Reactivity	Human; Mouse; Rat
Applications	WB
Gene Name	DYRK1A DYRK MNB MNBH
Immunogen	Synthesized peptide derived from human DYRK1A/B (Phospho-Tyr321/273)
Specificity	This antibody detects endogenous levels of DYRK1A/B (Phospho-Tyr321/273) at Human, Mouse, Rat
Formulation	Liquid in PBS containing 50% glycerol, and 0.91% sodium azide.
Source	Polyclonal, Rabbit, IgG
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using 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; Dual specificity tyrosine (Y) phosphorylation regulated kinase 1A; Dual specificity tyrosine phosphorylation regulated kinase 1; Dual specificity tyrosine phosphorylation regulated kinase 1A; Dual specificity tyrosine-phosphorylation-regulated kinase 1A; Dual specificity YAK 1 related kinase; Dual specificity YAK1 related kinase; Dual specificity YAK1-related kinase; DYR1A_HUMAN; DYRK 1; DYRK 1A; DYRK; DYRK1; Dyrk1a; DYRKA; hMNB; HP 86; HP86; Minibrain (Drosophila) homolog; Minibrain homolog; Minibrain; Drosophila; homolog of; MNB; MNB protein kinase; Mnb protein kinase homolog hp86; Serine/threonine-specific; MNB/DYRK protein kinase; MNBH; MRD7; OTTHUMP199; OTTHUMP1991; OTTHUMP1994; OTTHUMP174799; Protein kinase minibrain homolog; Serine/threonine kinase MNB; AOMS3; Dual specificity tyrosine (Y) phosphorylation regulated kinase 1B; Dual specificity tyrosine phosphorylation regulated kinase 1B; Dual specificity tyrosine-phosphorylation-regulated kinase 1B; DYR 1B; DYR1A; DYR1B; DYR1B_HUMAN; DYRK 1B; Dyrk1b; Minibrain related kinase; Minibrain-related kinase; M1RK; Mirk protein kinase; DYRK1A/B; DYRK1A DYRK MNB MNBH; DYRK1A/B (Phospho-Tyr321/273); Dual specificity tyrosine-phosphorylation-regulated kinase 1A (EC 2.7.12.1) (Dual specificity YAK1-related kinase) (HP86) (Protein kinase minibrain homolog) (MNBH) (hMNB)
Observed Band	



Calculated Molecular Weight	7KD; 86KD,69KD
Cell Pathway	Nucleus . Nucleus speckle .
Tissue Specificity	Ubiquitous. Highest levels in skeletal muscle, testis, fetal lung and fetal kidney.
Function	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 role 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 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.

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