

## DYRK1A/B (Phospho Tyr321/273) Rabbit pAb

CatalogNo: YP1664

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 84kD (Calculated)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

WB 1:500-2000

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from human DYRK1A/B (Phospho-Tyr321/273)

**Specificity** This antibody detects endogenous levels of DYRK1A only when phosphorylated at Thr321 and DYRK1B only when phosphorylated at thr273..The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):YQyIQ

## Target Information

**Gene name** DYRK1A DYRK MNB MNBH

**Protein Name** DYRK1A/B (Phospho-Tyr321/273)

Organism	Gene ID	UniProt ID
Human	<a href="#">1859;</a>	<a href="#">Q13627;</a>
Mouse	<a href="#">13548;</a>	<a href="#">Q61214;</a>
Rat	<a href="#">25255;</a>	<a href="#">Q63470;</a>

**Cellular Localization** 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. ,

## Validation Data

## Contact information

Orders: [order.cn@immunoway.com](mailto:order.cn@immunoway.com)  
Support: [support.cn@immunoway.com](mailto:support.cn@immunoway.com)  
Telephone: 400-8787-807(China)  
Website: <http://www.immunoway.com.cn>  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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