

**DYRK1B Antibody (C-term)**  
Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP7538b

**Specification**

**DYRK1B Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q9Y463</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	561-589

**DYRK1B Antibody (C-term) - Additional Information**

Gene ID 9149

**Other Names**

Dual specificity  
tyrosine-phosphorylation-regulated kinase 1B,  
Minibrain-related kinase, Mirk protein kinase,  
DYRK1B, MIRK

**Target/Specificity**

This DYRK1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 561-589 amino acids from the C-terminal region of human DYRK1B.

**Dilution**

WB ~ ~ 1:1000  
IHC-P ~ ~ 1:50 ~ 100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

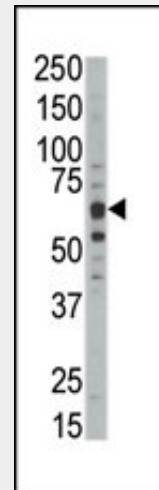
**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

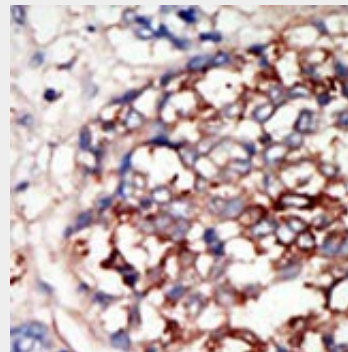
**Precautions**

DYRK1B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**DYRK1B Antibody (C-term) - Protein Information**



Western blot analysis of anti-DYRK1B Pab (Cat. #AP7538b) in mouse kidney tissue lysate. DYRK1B (Arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

**DYRK1B Antibody (C-term) - Background**

DYRK1B is a member of the DYRK family of protein kinases. DYRK1B contains a bipartite nuclear localization signal and is found mainly in muscle and testis. The protein is proposed to be involved in the regulation of nuclear functions.

**Name** DYRK1B

**Synonyms** MIRK

**Function**

Dual-specificity kinase which possesses both serine/threonine and tyrosine kinase activities. Enhances the transcriptional activity of TCF1/HNF1A and FOXO1. Inhibits epithelial cell migration. Mediates colon carcinoma cell survival in mitogen-poor environments. Inhibits the SHH and WNT1 pathways, thereby enhancing adipogenesis. In addition, promotes expression of the gluconeogenic enzyme glucose-6-phosphatase (G6PC).

**Cellular Location**

Nucleus.

**Tissue Location**

Highest expression in skeletal muscle, testis, heart and brain with little expression in colon or lung. Expressed in a variety of tumor cell lines.

Three isoforms of DYRK1B have been identified differing in the presence of two alternatively spliced exons within the catalytic domain.

**DYRK1B Antibody (C-term) - References**

Lim, S., et al., J. Biol. Chem. 277(51):49438-49445 (2002).  
Lim, S., et al., J. Biol. Chem. 277(28):25040-25046 (2002).  
Lee, K., et al., Cancer Res. 60(13):3631-3637 (2000).  
Leder, S., et al., Biochem. Biophys. Res. Commun. 254(2):474-479 (1999).

**DYRK1B Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**DYRK1B Antibody (C-term) - Citations**

- [Mirk/Dyrk1B mediates G0/G1 to S phase cell cycle progression and cell survival involving MAPK/ERK signaling in human cancer cells.](#)
- [The involvement of FoxO in cell survival and chemosensitivity mediated by Mirk/Dyrk1B in ovarian cancer.](#)
- [Negative feedback Inhibition of NFATc1 by DYRK1A regulates bone homeostasis.](#)
- [Involvement of GSK-3beta and DYRK1B in differentiation-inducing factor-3-induced phosphorylation of cyclin D1 in HeLa cells.](#)