

Mouse Dyrk1b Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14617c**Specification**

Mouse Dyrk1b Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O9Z188
Other Accession	O9Y463 , NP_001033046.1 , NP_034222.1
Reactivity	Mouse
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	69178
Antigen Region	376-403

Mouse Dyrk1b Antibody (Center) - Additional Information**Gene ID** 13549**Other Names**

Dual specificity tyrosine-phosphorylation-regulated kinase 1B, Dyrk1b

Target/Specificity

This Mouse Dyrk1b antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 376-403 amino acids from the Central region of mouse Dyrk1b.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Mouse Dyrk1b Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Dyrk1b Antibody (Center) - Protein Information**Name** Dyrk1b**Function** Dual-specificity kinase which possesses both serine/threonine and tyrosine kinase

activities (PubMed:[12633499](#)). Plays an essential role in ribosomal DNA (rDNA) double-strand break repair and rDNA copy number maintenance. During DNA damage, mediates transcription silencing in part via phosphorylating and enforcing DSB accumulation of the histone methyltransferase EHMT2. 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 catalytic subunit 1 (G6PC1).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q9Y463}. Nucleus, nucleolus {ECO:0000250|UniProtKB:Q9Y463}. Chromosome {ECO:0000250|UniProtKB:Q9Y463}. Note=Localizes to sites of double-strand breaks (DSBs) following DNA damage {ECO:0000250|UniProtKB:Q9Y463}

Tissue Location

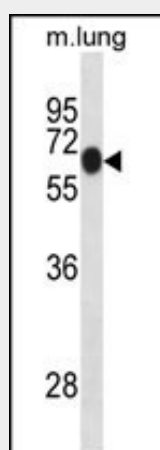
Isoform 1 and isoform 2 are broadly expressed. Isoform 3 seems specific for skeletal muscle (at protein level)

Mouse Dyrk1b Antibody (Center) - 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](#)

Mouse Dyrk1b Antibody (Center) - Images



Mouse Dyrk1b Antibody (Center) (Cat. #AP14617c) western blot analysis in mouse lung tissue lysates (35ug/lane). This demonstrates the Dyrk1b antibody detected the Dyrk1b protein (arrow).

Mouse Dyrk1b Antibody (Center) - Background

Dual-specificity kinase which possesses both serine/ threonine and tyrosine kinase activity.

Enhances the transcriptional activity of TCF1/HNF1A and FOXO1. Inhibits epithelial cell migration.
Mediates colon carcinoma cell survival in mitogen-poor environments.

Mouse Dyrk1b Antibody (Center) - References

Janumyan, Y., et al. J. Biol. Chem. 283(49):34108-34120(2008)
Munton, R.P., et al. Mol. Cell Proteomics 6(2):283-293(2007)
Mercer, S.E., et al. J. Biol. Chem. 280(27):25788-25801(2005)
Collins, M.O., et al. J. Biol. Chem. 280(7):5972-5982(2005)
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