

Mouse Dyrk1b Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14617c**Specification**

Mouse Dyrk1b Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9Z188](#)**Mouse Dyrk1b Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 13549**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Dyrk1b Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Dyrk1b Antibody (Center) Blocking Peptide - Images

Mouse Dyrk1b Antibody (Center) Blocking Peptide - Background

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Mouse Dyrk1b Antibody (Center) Blocking Peptide - 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)Deng, X., et al. J. Biol. Chem. 280(6):4894-4905(2005)