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Mouse Dyrk1b Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP14617c

Specification

Mouse Dyrk1b Antibody (Center) Blocking Peptide - Product Information

Primary 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

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) 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)