

DYRK1B Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16734c**Specification**

DYRK1B Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9Y463](#)**DYRK1B Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 9149**Other Names**

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

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.

DYRK1B Antibody (Center) Blocking Peptide - Protein Information**Name** DYRK1B**Synonyms** MIRK**Function**

Dual-specificity kinase which possesses both serine/threonine and tyrosine kinase activities. Plays an essential role in ribosomal DNA (rDNA) double-strand break repair and rDNA copy number maintenance (PubMed:33469661). During DNA damage, mediates transcription silencing in part via phosphorylating and enforcing DSB accumulation of the histone methyltransferase EHMT2 (PubMed:32611815). 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. Nucleus, nucleolus. Chromosome. Note=Localizes to sites of double-strand breaks (DSBs) following DNA damage.

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.

DYRK1B Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

DYRK1B Antibody (Center) Blocking Peptide - Images**DYRK1B Antibody (Center) Blocking Peptide - 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. Three isoforms of DYRK1B have been identified differing in the presence of two alternatively spliced exons within the catalytic domain. [provided by RefSeq].

DYRK1B Antibody (Center) Blocking Peptide - References

Lauth, M., et al. Nat. Struct. Mol. Biol. 17(6):718-725(2010) Yang, C., et al. Carcinogenesis 31(4):552-558(2010) Jin, K., et al. J. Biol. Chem. 284(34):22916-22925(2009) Deng, X., et al. Cancer Res. 69(8):3317-3324(2009) Janumyan, Y., et al. J. Biol. Chem. 283(49):34108-34120(2008)