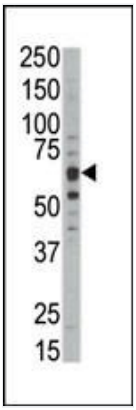
DYRK1B Antibody – Rabbit Polyclonal

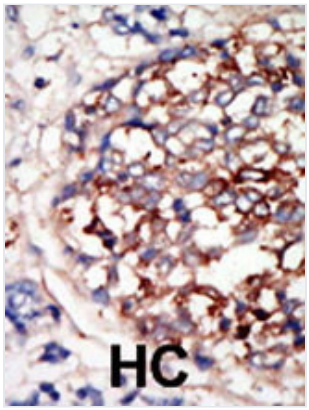
PRODUCT OVERVIEW

Product Name	DYRK1B, Polyclonal Antibody
Full Product Name	DYRK1B, CT (DYRK1B, MIRK, Dual specificity tyrosine-phosphorylation-regulated kinase 1B, Minibrain-related kinase, Mirk protein kinase) (APC)
Product Gene Name	anti-DYRK1B antibody
Product Synonym Names	DYRK1B; MIRK; Dual specificity tyrosine-phosphorylation-regulated kinase 1B; Minibrain-related kinase; Mirk protein kinase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	69,198 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (40315990..40324841, complement). Location: 19q13.2
OMIM	604556
3D Structure	ModBase 3D Structure for Q9Y463
Immunogen	DYRK1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 567~597 amino acids from the C-terminal region of human DYRK1B.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-DYRK1B antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-DYRK1B antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-DYRK1B antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-DYRK1B antibody	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.

Product References and Citations for anti-DYRK1B antibody	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).
Other Notes	Small volumes of anti-DYRK1B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DYRK1B purchase	MBS6293973 is an antibody targeting DYRK1B. Also known as DYRK1B, CT (DYRK1B, MIRK, Dual specificity tyrosine-phosphorylation-regulated kinase 1B, Minibrain-related kinase, Mirk protein kinase) (APC). Reactive in Human, Mouse. Host: Rabbit.



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



Immunohistochemistry (IHC) of anti-DYRK1B antibody
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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DYRK1B. It may not necessarily be applicable to this product.

NCBI GI #	4758222
NCBI GeneID	9149
NCBI Accession #	NP_004705.1
UniProt Primary Accession #	Q9Y463
UniProt Secondary Accession #	O75258; O75788; O75789
UniProt Related Accession #	Q9Y463
GenBank Nucleotide #	NM_004714.1
NCBI Official Full Name	dual specificity tyrosine-phosphorylation-regulated kinase 1B isoform a
NCBI Official Synonym Full Names	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1B
NCBI Official Symbol	DYRK1B
NCBI Official Synonym Symbols	MIRK
UniProt Protein Name	Dual specificity tyrosine-phosphorylation-regulated kinase 1B
UniProt Synonym Protein Names	Minibrain-related kinase; Mirk protein kinase
Protein Family	Dual specificity tyrosine-phosphorylation-regulated kinase
UniProt Gene Name	DYRK1B
UniProt Synonym Gene Names	MIRK

UniProt Entry Name	DYR1B_HUMAN
NCBI Protein Information	dual specificity tyrosine-phosphorylation-regulated kinase 1B; mirk protein kinase; minibrain-related kinase
UniProt Comments for DYRK1B	DYRK1B: a dual-specificity protein kinase of the DYRK family. Localizes in the nucleus, where it enhances the transcriptional activity of TCF1/HNF1A. A co-activator of FKHR (FOXO1a)-dependent glucose-6-phosphatase gene expression. Induced by members of the Rho-family in myoblasts. Highest expression in skeletal muscle, testis, heart and brain with little expression in colon or lung. Expressed in a variety of tumor cell lines. Contains a bipartite nuclear targeting signal sequence. Three splice-variant isoforms have been described. Protein type: Kinase, protein; EC 2.7.12.1; Protein kinase, CMGC; Protein kinase, dual-specificity (non-receptor); CMGC group; DYRK family; Dyrk1 subfamily Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; protein-tyrosine kinase activity; transcription coactivator activity; protein serine/threonine/tyrosine kinase activity; ATP binding; protein kinase activity Biological Process: peptidyl-tyrosine phosphorylation; positive regulation of transcription, DNA-dependent; protein amino acid phosphorylation; myoblast fusion Disease: Abdominal Obesity-metabolic Syndrome 3
Research Articles on DYRK1B	**1.** Mirk/Dyrk1B plays an important role in ovarian cancer cell survival through modulating FoxO translocation.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/dyrk1b/6293973