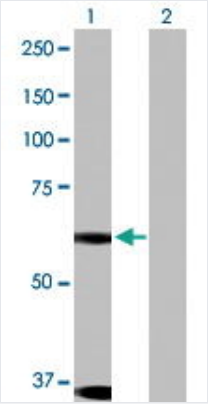
DYRK1B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DYRK1B, Polyclonal Antibody
Full Product Name	DYRK1B (Dual Specificity Tyrosine-phosphorylation-regulated Kinase 1B, Minibrain-related Kinase, Mirk Protein Kinase, MIRK) (FITC)
Product Gene Name	anti-DYRK1B antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human DYRK1B.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor
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	Full length human DYRK1B, aa1-629 (NP_004705.1).
Immunogen Sequence	MAVPPGHGPFSGFPGPQEHTQVLPDVRLLPRRLPLAFRDATSAPLRKLSVDLIKTYKHINEVYYAKKKRRAQQAPPQDSSNKKEKKVLNHGYDDDNHDY
Conjugate	FITC
Note	Preservative Free
Product Categories/Family for anti-DYRK1B antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-DYRK1B antibody	Western Blot (WB)
Application Notes for anti-DYRK1B antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-DYRK1B antibody	DYRK1B is a member of the DYRK/minibrain family of dual specificity tyrosine-regulated, arginine-directed protein kinases. It is a serine/threonine prote
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 nece
Searchable Terms for DYRK1B purchase	MBS6376813 is an antibody targeting DYRK1B. Also known as DYRK1B (Dual Specificity Tyrosine-phosphorylation-regulated Kinase 1B, Minibrain-rel



Western Blot (WB) of anti-DYRK1B antibody
Western Blot analysis of DYRK1B expression in transfected 293T cell line by DYRK1B polyclonal antibody. Lane 1: DYRK1B transfected lysate (69.2kD). Lane 2: Non-transfected lysate.

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
NCBI Summary for DYRK1B	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, Jul 2008]
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.
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