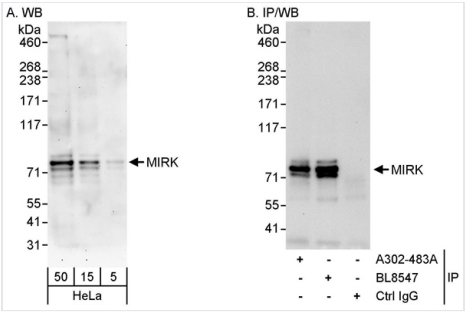
MIRK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MIRK, Polyclonal Antibody
Full Product Name	Rabbit anti-MIRK Antibody, Affinity Purified
Product Gene Name	anti-MIRK antibody
Product Synonym Gene Name	DYRK1B
Product Synonym Names	dual specificity tyrosine-(Y)-phosphorylation regulated kinase 1B; mirk protein kinase; MIRK; dual specificity tyrosine-phosphorylation-regulated kinase 1B; AOMS3; minibrain-related kinase; Dual specificity tyrosine-phosphorylation-regulated kinase 1B; dual specificity tyrosine phosphorylation regulated kinase 1B
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
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
Predicted Reactivity	Mouse
Immunogen	Between 500 and 550
Conjugation	Unconjugated
Product Categories/Family for anti-MIRK antibody	Primary Antibodies
Applications Tested/Suitable for anti-MIRK antibody	Western Blot (WB), Immunoprecipitation (IP)
Application Notes for anti-MIRK antibody	WB: 1:2000-1:10,000 IP: 6ug/mg lysate
Related Product Information for anti-MIRK antibody	Minibrain-related kinase (mirk) is also known as DYRK1B (dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1B). Mirk is a member of the DYRK family of protein kinases. Mirk 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 [taken from NCBI Entrez Gene (GeneID: 9149)].
Other Notes	Small volumes of anti-MIRK 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 MIRK purchase	MBS3902864 is an antibody targeting MIRK. Also known as Rabbit anti-MIRK Antibody, Affinity Purified. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MIRK antibody
Detection of human MIRK by western blot and immunoprecipitation. Samples: Whole cell lysate (5, 15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded) from HeLa cells. Antibodies: Affinity purified rabbit anti-MIRK antibody MBS3902864 used for WB at 0.1 ug/ml (A) and 1 ug/ml (B) and used for IP at 10 ug/mg lysate. MIRK was also immunoprecipitated by rabbit anti-MIRK antibody BL8547, which recognizes a downstream epitope. Detection: Chemiluminescence with exposure times of 1 minute (A) and 30 seconds (B).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MIRK. 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
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 MIRK	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 MIRK	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 MIRK	**1.** Mirk/Dyrk1B plays an important role in ovarian cancer cell survival through modulating FoxO translocation.
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