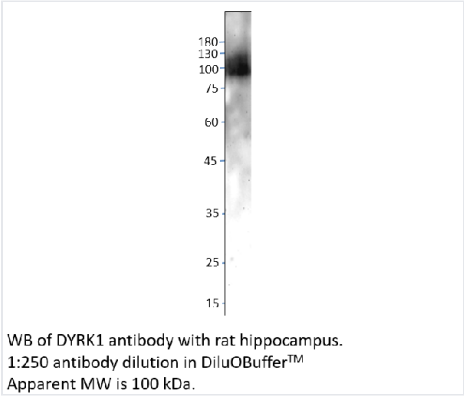
DYRK1 Antibody – Rabbit Polyclonal

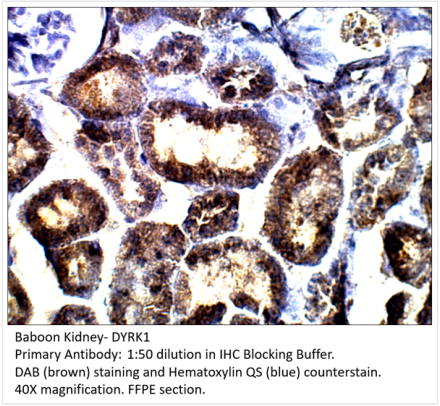
PRODUCT OVERVIEW

Product Name	DYRK1, Polyclonal Antibody
Full Product Name	DYRK1 Antibody
Product Gene Name	anti-DYRK1 antibody
Product Synonym Names	Affinity Purified Dual specificity tyrosine-phosphorylation-regulated kinase 1A Antibody; Dual specificity tyrosine phosphorylation regulated kinase; Dual specificity YAK1-related kinase; DYRK; DYRK1; DYRKA; hMNB; HP86; Minibrain, Drosophila, homolog of MNB; MNB protein kinase; Mnb protein kinase homolog hp86; MNB protein kinase, Serine/threonine-specific; MNB/DYRK protein kinase; MNBH; MRD7; Protein kinase minibrain homolog; Serine/threonine kinase MNB
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Immobilized antigen affinity chromatography
Concentration	0.5 ug/ul in antibody stabilization buffer (lot specific)
Preparation and Storage	Store at -20 degree C for long term storage.
Molecular Weight	66,099 Da
3D Structure	ModBase 3D Structure for Q13627
Immunogen	Synthetic peptide taken within amino acid region 300-350 on human Dual specificity tyrosine-phosphorylation-regulated kinase 1A.
Conjugation	Unconjugated
Molecular Function	Kinase; Serine/threonine-protein kinase; Transferase; Tyrosine-protein kinase
Subcellular Location	Nucleus Speckle
Product Categories/Family for anti-DYRK1 antibody	Primary Antibodies; Neuroscience; Neurogenesis & Plasticity; DYRK1 Antibody
Applications Tested/Suitable for anti-DYRK1 antibody	ELISA (EIA), Immunohistochemistry (IHC), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-DYRK1 antibody	ELISA: 1:10,000 IHC: 1:50-1:150 IP: 1:150 WB: 1:500
Related Product Information for anti-DYRK1 antibody	Overview: May play a role in a signaling pathway regulating nuclear functions of cell proliferation. Modulates alternative splicing by phosphorylating the splice factor SRSF6. Phosphorylates serine, threonine and tyrosine residues in its sequence and in exogenous substrates such as CRY2, FOXO1, SRSF6 and SIRT1. Exhibits a sugstrate preference for proline at position P+1 and arginine at position P-3. Structure: The polyhistidine repeats act as targeting signals to nuclear speckles. Expression: Ubiquitous. Highest levels in skeletal muscle, testis, fetal lung and fetal kidney.

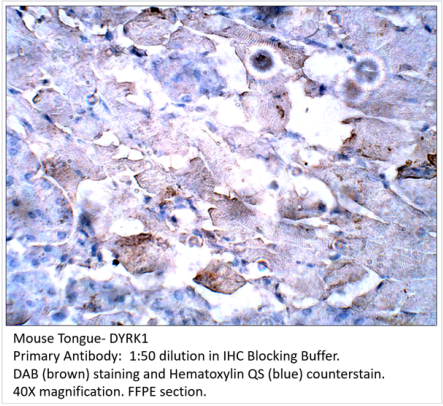
Other Notes	Small volumes of anti-DYRK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DYRK1 purchase	MBS5400389 is an antibody targeting DYRK1. Also known as DYRK1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



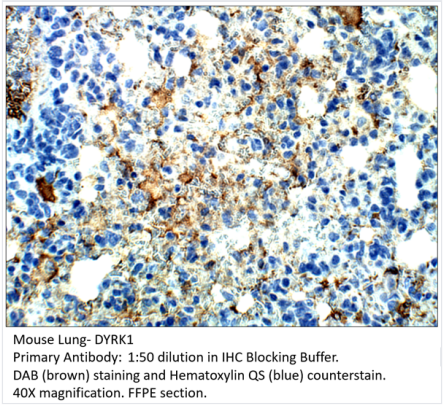
Western Blot (WB) of anti-DYRK1 antibody



Immunohistochemistry (IHC) of anti-DYRK1 antibody



Immunohistochemistry (IHC) of anti-DYRK1 antibody



Immunohistochemistry (IHC) of anti-DYRK1 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DYRK1. It may not necessarily be applicable to this product.

NCBI GI #	1113820495
NCBI GeneID	1859
NCBI Accession #	NP_001334650.1
UniProt Primary Accession #	Q13627
UniProt Secondary Accession #	O60769; Q92582; Q92810; Q9UNM5
UniProt Related Accession #	Q13627
GenBank Nucleotide #	NM_001347721.1
NCBI Official Full Name	dual specificity tyrosine-phosphorylation-regulated kinase 1A isoform 2
NCBI Official Synonym Full Names	dual specificity tyrosine phosphorylation regulated kinase 1A
NCBI Official Symbol	DYRK1A
NCBI Official Synonym Symbols	MNB; DYRK; HP86; MNBH; MRD7; DYRK1
UniProt Protein Name	Dual specificity tyrosine-phosphorylation-regulated kinase 1A

UniProt Synonym Protein Names	Dual specificity YAK1-related kinase; HP86; Protein kinase minibrain homolog; MNBH; hMNB
Protein Family	Probable serine/threonine-protein kinase
UniProt Gene Name	DYRK1A
UniProt Synonym Gene Names	DYRK; MNB; MNBH; MNBH; hMNB
NCBI Protein Information	dual specificity tyrosine-phosphorylation-regulated kinase 1A
NCBI Summary for DYRK1	This gene encodes a member of the Dual-specificity tyrosine phosphorylation-regulated kinase (DYRK) family. This member contains a nuclear targeting signal sequence, a protein kinase domain, a leucine zipper motif, and a highly conservative 13-consecutive-histidine repeat. It catalyzes its autophosphorylation on serine/threonine and tyrosine residues. It may play a significant role in a signaling pathway regulating cell proliferation and may be involved in brain development. This gene is a homolog of Drosophila mnb (minibrain) gene and rat Dyrk gene. It is localized in the Down syndrome critical region of chromosome 21, and is considered to be a strong candidate gene for learning defects associated with Down syndrome. Alternative splicing of this gene generates several transcript variants differing from each other either in the 5' UTR or in the 3' coding region. These variants encode at least five different isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for DYRK1	Dual-specificity kinase which possesses both serine/threonine and tyrosine kinase activities. May play a role in a signaling pathway regulating nuclear functions of cell proliferation. Modulates alternative splicing by phosphorylating the splice factor SRSF6 (). Exhibits a substrate preference for proline at position P+1 and arginine at position P-3. Has pro-survival function and negatively regulates the apoptotic process. Promotes cell survival upon genotoxic stress through phosphorylation of SIRT1. This in turn inhibits TP53 activity and apoptosis ().
Research Articles on DYRK1	**1.** The authors show here that chemical inhibition or genetic knockdown of DYRK1A interferes with neural specification of human pluripotent stem cells, a process equating to the earliest stage of human brain development. Specifically, DYRK1A inhibition insulates the self-renewing subpopulation of human pluripotent stem cells from powerful signals that drive neural induction.
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.
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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.

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