

DYRK1A Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7555c

Specification

DYRK1A Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q13627
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	389-418

DYRK1A Antibody (Center) - Additional Information

Gene ID 1859

Other Names

Dual specificity
tyrosine-phosphorylation-regulated kinase
1A, Dual specificity YAK1-related kinase,
HP86, Protein kinase minibrain homolog,
MNBH, hMNB, DYRK1A, DYRK, MNB, MNBH

Target/Specificity

This DYRK1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 389-418 amino acids from the Central region of human DYRK1A.

Dilution

WB~~1:2000

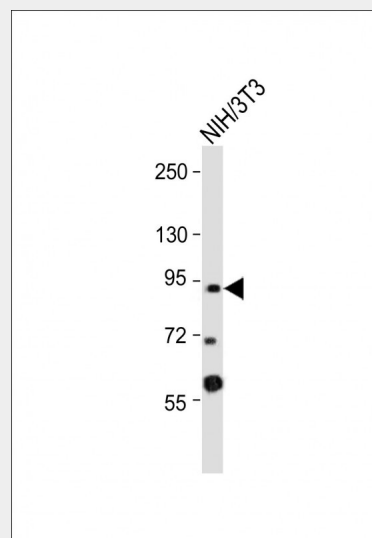
Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions



Anti-DYRK1A Antibody (Center) at 1:2000
dilution + NIH/3T3 whole cell lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L),
Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 86 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

DYRK1A Antibody (Center) - Background

DYRK1A is 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 *mn*b (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.

DYRK1A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

DYRK1A Antibody (Center) - Protein Information

Name DYRK1A

Synonyms DYRK, MNB, MNBH

Function

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 (By similarity). 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 (By similarity).

Cellular Location

Nucleus. Nucleus speckle
{ECO:0000250|UniProtKB:Q61214}

Tissue Location

Ubiquitous. Highest levels in skeletal muscle, testis, fetal lung and fetal kidney.

DYRK1A Antibody (Center) - References

Adayev,T., Biochemistry 46 (25), 7614-7624 (2007)
Chang,H.S., Int. J. Cancer 120 (11), 2377-2385 (2007)
Alvarez,M., Mol. Biol. Cell 18 (4), 1167-1178 (2007)
Wissing,J., Mol. Cell Proteomics 6 (3), 537-547 (2007)

DYRK1A Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)