

Datasheet for ABIN1393603  
**anti-DYRK1A antibody (AA 81-170) (Biotin)**



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## Overview

|                      |                                                                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                                           |
| Target:              | DYRK1A                                                                                                                                           |
| Binding Specificity: | AA 81-170                                                                                                                                        |
| Reactivity:          | Human                                                                                                                                            |
| Host:                | Rabbit                                                                                                                                           |
| Clonality:           | Polyclonal                                                                                                                                       |
| Conjugate:           | This DYRK1A antibody is conjugated to Biotin                                                                                                     |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)),<br>Immunohistochemistry (Frozen Sections) (IHC (fro)) |

## Product Details

|                       |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from human DYRK1A      |
| Isotype:              | IgG                                                             |
| Predicted Reactivity: | Human, Mouse, Rat, Dog, Cow, Sheep, Pig, Horse, Chicken, Rabbit |
| Purification:         | Purified by Protein A.                                          |

## Target Details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Target:           | DYRK1A                                                                                    |
| Alternative Name: | DYRK1A ( <a href="#">DYRK1A Products</a> )                                                |
| Background:       | Synonyms: Dual specificity tyrosine phosphorylation regulated kinase 1A, DYRK 1, DYRK 1A, |

## Target Details

DYRK , DYRK1 , DYRKA, HP 86, HP86, Minibrain Drosophila homolog, Minibrain homolog, MNB , MNB/DYRK protein kinase antibody, MNBH, Protein kinase minibrain homolog, Serine/threonine kinase MNB, DYR1A\_HUMAN.

Background: Dyrk (for dual specificity tyrosine phosphorylation regulated kinase) is the homolog of the Drosophila mnk (minibrain) gene which is required for neurogenesis. Dyrk is a dual-specificity tyrosine kinase and serine/threonine kinase, which is itself regulated by tyrosine phosphorylation. Several mammalian Dyrk related proteins have been identified and are thought to compose a family of dual specificity protein kinases. Dyrk family members, including Dyrk1A (dual specificity tyrosine-phosphorylation-regulated kinase 1A), Dyrk1B, Dyrk1C, Dyrk2, Dyrk3, Dyrk4A and Dyrk4B, are thought to be involved in diverse cellular functions. Localized to the nucleus and highly expressed in testis, muscle and the developing nervous system, Dyrk1A, also known as MNB or MNBH, functions to phosphorylate serine, threonine and tyrosine residues on various substrates involved in signaling pathways that regulate cell proliferation. Dyrk1A is a candidate gene for learning defects that are involved in Down's syndrome (DS), suggesting a possible role for Dyrk1A in the development of DS. Four isoforms of Dyrk1A exist due to alternative splicing events.

Pathways: [Mitotic G1-G1/S Phases](#)

## Application Details

Application Notes: WB 1:300-5000  
IHC-P 1:200-400  
IHC-F 1:100-500

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

## Handling

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|          |        |
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| Storage: | -20 °C |
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|                  |                               |
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| Storage Comment: | Store at -20°C for 12 months. |
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|              |           |
|--------------|-----------|
| Expiry Date: | 12 months |
|--------------|-----------|