

Datasheet for 600-401-AY2**DYRK1A Antibody****Overview**

Description:	Anti-DYRK1A (RABBIT) Antibody - 600-401-AY2
Item No.:	600-401-AY2
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	DYRK1A is a member of the dual-specificity tyrosine phosphorylation-regulated kinase (DYRK) family and is thought to be involved in neuronal differentiation, neurodegenerative diseases, and is considered to be a strong candidate gene for learning defects associated with Down syndrome. DYRK1A phosphorylates several transcription factors such as p53, leading to inhibition of embryonic neuronal cell proliferation. DYRK1A associates with multiple proteins, including SPRED1 and SPRED2; this association appears to inhibit the phosphorylation activity of DYRK1A. Recent evidence also suggests that DYRK1A may be involved in the replication of HIV-1.
Synonyms:	DYRK1A Antibody, MNB, DYRK, HP86, MNBH, MRD7, DYRK1, MNB, Dual specificity tyrosine-phosphorylation-regulated kinase 1A, Dual specificity YAK1-related kinase
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	DYRK1A
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-DYRK1A antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the C-terminus of human DYRK1A.

Purity/Specificity: Anti-DYRK1A Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Multiple isoforms of DYRK1A are known to exist. DYRK1A antibody will not cross-react with other DYRK family members

Relevant Links:

- [UniProtKB - Q13627](#)
- [GeneID - 1859](#)
- [NCBI - NP_001387](#)

Application Details

Tested Applications: ELISA, IHC, WB

Application Note: Anti-DYRK1A Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 86 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:20,000

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images

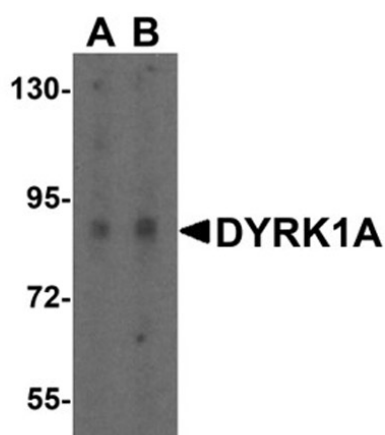


Immunocytochemistry

Immunocytochemistry of DYRK1A.

Cell: HeLa cells.

Primary Antibody: DYRK1A antibody at 10 µg/mL.



Western Blot

Western blot analysis of DYRK1A.

Cell: HeLa cell lysate.

Primary Antibody: DYRK1A antibody at (A) 1 µg/mL and (B) 2 µg/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.