

**Datasheet for 600-401-AK0****CHD7 Antibody****Overview**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | Anti-CHD7 (RABBIT) Antibody - 600-401-AK0 |
| <b>Item No.:</b>     | 600-401-AK0                               |
| <b>Size:</b>         | 100 µg                                    |
| <b>Applications:</b> | ELISA, IF, IHC, WB                        |
| <b>Reactivity:</b>   | Human, Mouse                              |
| <b>Host Species:</b> | Rabbit                                    |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | CHD proteins belong to a superfamily of proteins of ATP-dependent chromatin remodeling enzymes that have a unique combination of functional domains, including two N-terminal chromodomains, a SNF2-like ATPase/helicase domain and a DNA-binding domain. These proteins are thought to play a role in early embryonic development by affecting chromatin structure and gene expression. Mutations in one member of this family, CHD7, result in CHARGE syndrome. It colocalizes with embryonic stem (ES) cell master regulators OCT4/POU5F1, SOX2, and NANOG and is thought to modulate ES-specific gene transcription. Together with SOX2, CHD7 has been suggested to also regulate several human disease genes. |
| <b>Synonyms:</b>     | CHD7 Antibody, CRG, HH5, IS3, KAL5, KIAA1416, Chromodomain-helicase-DNA-binding protein 7, ATP-dependent helicase CHD7, CHD-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Target Details**

|                        |                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>      | CHD7                                                                                                                                                                  |
| <b>Reactivity:</b>     | Human, Mouse                                                                                                                                                          |
| <b>Immunogen Type:</b> | Conjugated Peptide                                                                                                                                                    |
| <b>Immunogen:</b>      | Anti-CHD7 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the N-terminus of human CHD7. |

**Purity/Specificity:** Anti-CHD7 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Multiple isoforms of CHD7 are known to exist.

**Relevant Links:**

- [UniProtKB - Q9P2D1](#)
- [GeneID - 55636](#)
- [NCBI - NP\\_001303619.1](#)

## Application Details

**Tested Applications:** ELISA, IF, IHC, WB

**Application Note:** Anti-CHD7 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 336 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

**IF:** 20 µg/mL

**IHC:** 5 µg/mL

**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

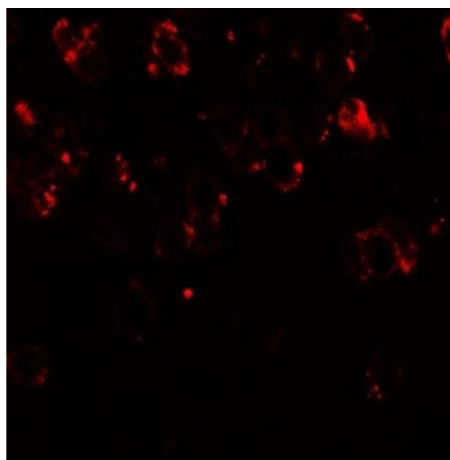
**Shipping Condition:** Dry Ice

**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.

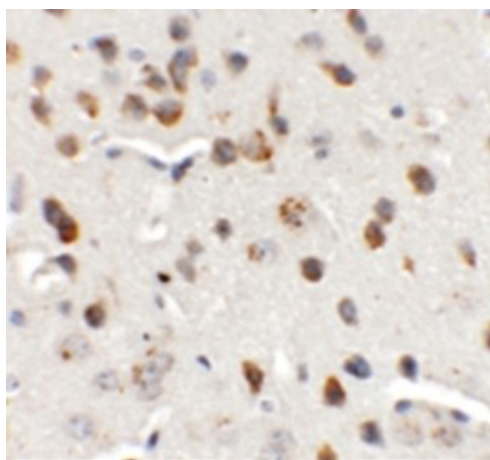
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## Images



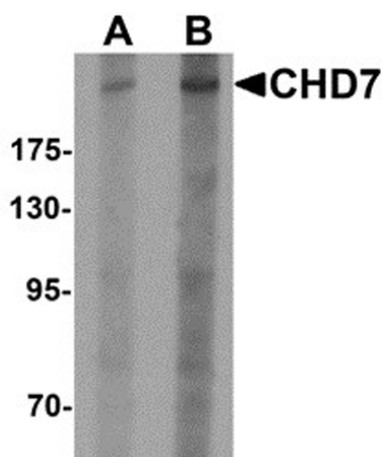
### **Immunofluorescence Microscopy**

Immunofluorescence of CHD7. Tissue: mouse brain tissue.  
Primary Antibody: CHD7 antibody at 20 µg/mL.



### **Immunohistochemistry**

Immunohistochemistry of CHD7. Tissue: mouse brain tissue.  
Primary Antibody: CHD7 antibody at 5 µg/mL.

**Western Blot**

Western blot analysis of CHD7. Load: SK-N-SH cell lysate.  
Primary Antibody: CHD7 antibody at (A) 1  $\mu\text{g/mL}$  and (B) 2  $\mu\text{g/mL}$ .

**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.