

**Datasheet for 600-401-AM2****CNOT4 Antibody****Overview**

<b>Description:</b>	Anti-CNOT4 (RABBIT) Antibody - 600-401-AM2
<b>Item No.:</b>	600-401-AM2
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, WB
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host Species:</b>	Rabbit

**Product Details**

<b>Background:</b>	CNOT4 is a component of the CCR4-NOT transcription complex, a complex that is implicated in the repression of RNA polymerase II transcription. In the CCR4-NOT complex, CNOT4 acts as an E3 ubiquitin-protein ligase and interacts with a subset of E2 ubiquitin-conjugating enzymes through a unique C4C4 RING domain. This E3 ligase activity was shown to be dependent on the selective and specific interaction with the ubiquitin conjugating enzyme UbcH5B. In yeast, mutations in CNOT4 that prevented its interaction with the UbcH5B homolog UBC4 caused increased sensitivity to hydroxyurea, heat shock, and hygromycin B, suggesting that CNOT4 and UbcH5B are involved in stress response in vivo. Multiple isoforms of CNOT4 are known to exist.
<b>Synonyms:</b>	CNOT4 Antibody, NOT4, NOT4H, CLONE243, NOT4, CCR4-NOT transcription complex subunit 4, CCR4-associated factor 4
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	CNOT4
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Immunogen Type:</b>	Conjugated Peptide

**Immunogen:** Anti-CNOT4 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the N-terminus of the human CNOT4.

**Purity/Specificity:** Anti-CNOT4 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with CNOT4 from other sources has not been determined.

**Relevant Links:**

- [UniProtKB - O95628](#)
- [GeneID - 4850](#)
- [NCBI - NP\\_037448](#)

## Application Details

**Tested Applications:** ELISA, WB

**Application Note:** Anti-CNOT4 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 64 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

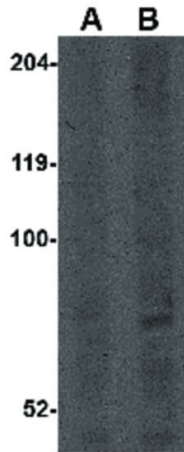
## Shipping & Handling

**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



### Western Blot

Western Blot of CNOT4 antibody. Lane A: A549 cell lysate at 1  $\mu\text{g}/\text{mL}$ . Lane B: A549 cell lysate at 2  $\mu\text{g}/\text{mL}$ . Load: 35  $\mu\text{g}$  per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 63.5 kDa, ~65 kDa for CNOT4.

## 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.