

Datasheet for 200-901-AJ3**CDC42 Antibody****Overview**

Description:	Anti-CDC42 (CHICKEN) Antibody - 200-901-AJ3
Item No.:	200-901-AJ3
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Chicken

Product Details

Background:	CDC42 is a small GTPase of the Rho-subfamily, which regulates signaling pathways that control diverse cellular functions including cell morphology, migration, endocytosis and cell cycle progression. This protein is highly similar to <i>S. cerevisiae</i> CDC42, and is able to complement the yeast <i>cdc42-1</i> mutant. The product of oncogene Dbl was reported to specifically catalyze the dissociation of GDP from this protein. CDC42 is thought to regulate actin polymerization through its direct binding to Neural Wiskott-Aldrich syndrome protein (N-WASP), which subsequently activates Arp2/3 complex. At least two isoforms of CDC42 are known to exist.
Synonyms:	CDC42 Antibody, G25K, CDC42Hs, Cell division control protein 42 homolog, G25K GTP-binding protein
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	CDC42
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-CDC42 antibody was prepared from chicken egg fractions produced by repeated immunizations with a 17 amino acid synthetic peptide near the N-terminus of human CDC42.

Purity/Specificity: Anti-CDC42 Antibody is an IgY fraction that has been affinity purified by immunoaffinity purification. Cross reactivity with CDC42 from other sources has not been determined.

Relevant Links:

- [UniProtKB - P60953](#)
- [GeneID - 998](#)
- [NCBI - NP_001782](#)

Application Details

Tested Applications: ELISA, WB

Application Note: Anti-CDC42 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 26 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: 1:5000 - 1:10000

WB: 0.5-1 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

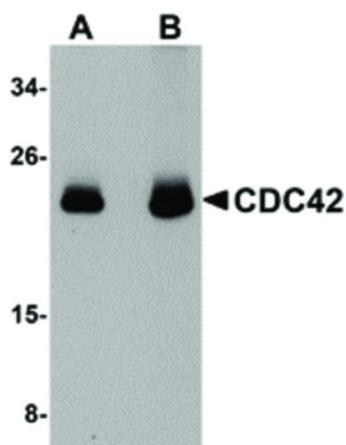
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

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

Images

**Western Blot**

Western Blot of CDC42 antibody. Lane 1: Human brain tissue lysate with CDC42 antibody at 0.5 $\mu\text{g/mL}$. Lane 2: Human brain tissue lysate with CDC42 antibody at 1 $\mu\text{g/mL}$. Load: 35 μg per lane. Secondary antibody: Peroxidase chicken secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 26 kDa, 24 kDa for CDC42. Other band(s): none.

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.