

Datasheet for 600-401-AJ4**CDCA8 Antibody****Overview**

Description:	Anti-CDCA8 (RABBIT) Antibody - 600-401-AJ4
Item No.:	600-401-AJ4
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	CDCA8 is a component of a chromosomal passenger complex (CPC) required for stability of the bipolar mitotic spindle. The chromosomal passenger complex, which includes Survivin, CDCA8, INCENP and Aurora-B, is known to play crucial roles during mitosis and cell division. It was found that CDCA8 interacting with Aurora-B, INCENP and Survivin, increases during G2/M phase and then reduces after exit from M phase. CDCA8 is cell cycle regulated, down-regulated in response to p53/Rb-signaling, and up-regulated in many types of cancerous tissues. In Drosophila cells, inactivation of CDCA8 results in polyploidy, delayed mitosis and abnormal tissue development, indicating its critical role for cell proliferation. Recent studies show that CDCA8 is essential for cell proliferation during early embryonic development, and its early embryonic lethality cannot be rescued by the loss of p53. Its aberrant expression is linked to a poor prognosis for gastric cancer.
Synonyms:	CDCA8 Antibody, BOR, DasraB, MESRGP, BOREALIN, PESCRG3, Borealin, Cell division cycle-associated protein 8, hDasra-B
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CDCA8
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-CDCA8 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 CDCA8.
Purity/Specificity:	Anti-CDCA8 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with CDCA8 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q53HL2 • GeneID - 55143 • NCBI - NP_060571

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-CDCA8 Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 31 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
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

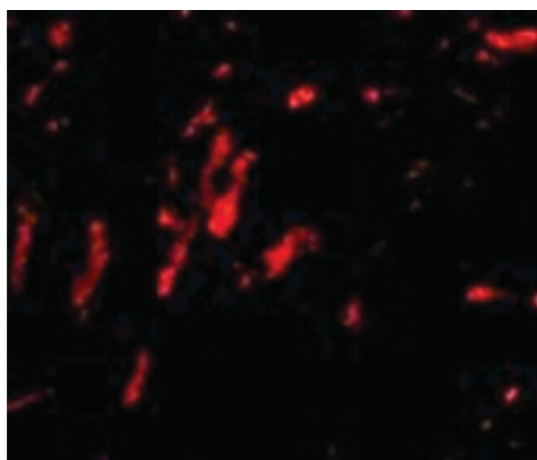
Shipping & Handling

Shipping Condition:	Dry Ice
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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.

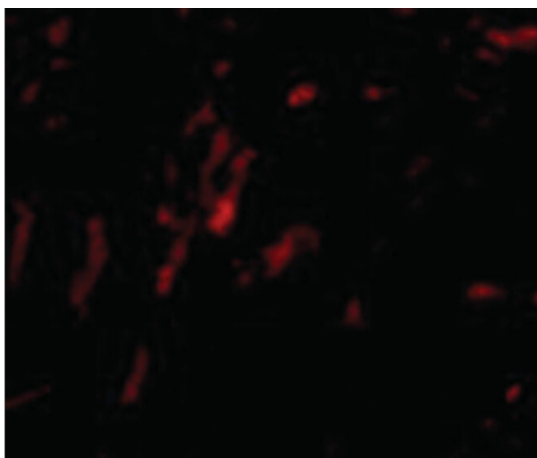
Expiration: Expiration date is one (1) year from date of receipt.

Images



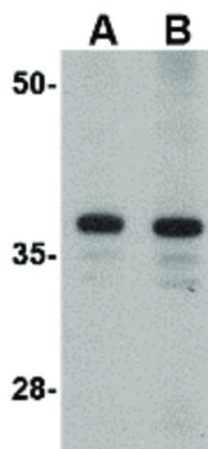
Immunofluorescence Microscopy

Immunofluorescence Microscopy of CDCA8 antibody.
Tissue: Rat kidney tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: CDCA8 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: CDCA8 as a red fluorescent signal.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of CDCA8 antibody.
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**Western Blot**

Western Blot of CDCA8 antibody. Lane A: Rat kidney lysate at 1 $\mu\text{g/mL}$. Lane B: Rat kidney lysate at 2 $\mu\text{g/mL}$. Load: 35 μg 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: 31.3 kDa, ~37 kDa for CDCA8.

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.