

**Datasheet for 600-401-AB5****CARD8 Antibody****Overview**

<b>Description:</b>	Anti-CARD8 (RABBIT) Antibody - 600-401-AB5
<b>Item No.:</b>	600-401-AB5
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, IF, IHC, WB
<b>Reactivity:</b>	Human
<b>Host Species:</b>	Rabbit

**Product Details**

<b>Background:</b>	Apoptosis is related to many diseases and development. Cell death signals are transduced by death domain (DD), death effector domain (DED), and caspase recruitment domain (CARD) containing molecules. CARD containing proteins include some caspases, Apaf-1, CARD4, IAPs, RICK, ARC, RAIDD, BCL-10, and ASC. A novel CARD-containing protein was recently identified and designated CARD8. This protein interacts with DRAL, a p53-responsive protein implicated in the induction of apoptosis, and caspase-1 and its related proteins ICEBERG and pseudo-ICE. Although there are conflicting reports on whether CARD8 acts a pro- or anti-apoptotic protein, it has been suggested that it functions as an adaptor molecule regulating caspase-1 and NF-kB activation.
<b>Synonyms:</b>	CARD8 Antibody, NDPP, DACAR, DAKAR, NDPP1, TUCAN, CARDINAL, KIAA0955, Caspase recruitment domain-containing protein 8, Apoptotic protein NDPP1
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	CARD8
<b>Reactivity:</b>	Human
<b>Immunogen Type:</b>	Conjugated Peptide

**Immunogen:** Anti-CARD8 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids at the C-terminus of human CARD8.

**Purity/Specificity:** Anti-CARD8 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with CARD8 from other sources has not been determined.

**Relevant Links:**

- [UniProtKB - Q9Y2G2](#)
- [GeneID - 22900](#)
- [NCBI - AAG50014](#)

## Application Details

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

**Application Note:** Anti-CARD8 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry, and Immunofluorescence. Expect a band at approximately 49 kDa in Western Blots using positive control K562 whole cell lysate, which can also be used in ICC and IF, or other specific cell lysates and tissues. Specific conditions for reactivity should be optimized by the end user.

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

**ELISA:** 1:20,000 - 1:40,000

**IF:** 20 µg/mL

**IHC:** 10 µg/mL

**WB:** 1-2 µg/mL

## Formulation

**Physical State:** Liquid (sterile filtered)

**Concentration:** 1.0 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

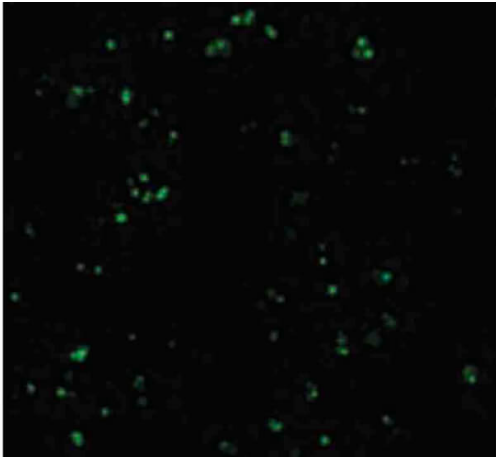
**Stabilizer:** None

## Shipping & Handling

**Shipping Condition:** Wet Ice

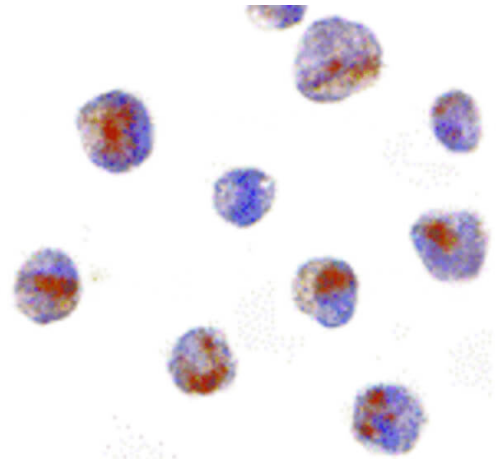
<b>Storage Condition:</b>	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images



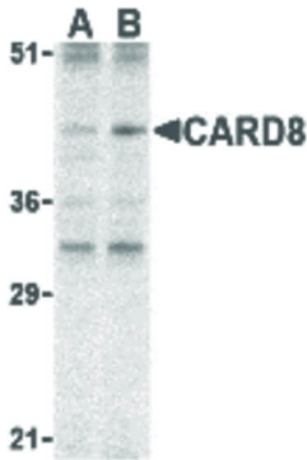
### Immunofluorescence Microscopy

Immunofluorescence Microscopy of CARD8 antibody. Cell Type: K562 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: CARD8 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. Localization: CARD8 is nuclear and cytoplasmic. Staining: CARD8 as green fluorescent signal.



### Immunohistochemistry

Immunocytochemistry of CARD8 antibody. Cell Type: K562 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: CARD8 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: CARD8 is nuclear and cytoplasmic. Staining: CARD8 is stained with hematoxylin purple nuclear counterstain.

**Western Blot**

Western Blot of CARD8 antibody. Lane A: K562 at 2 µg/ml. Lane B: K562 at 4 µg/ml. Load: 35 µg per lane. Primary antibody: CARD8 antibody at designated concentrations for overnight at 4°C. 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: 49 kDa, 45 kDa for CARD8. Other band(s): CARD8 splice variants and isoforms.

**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.