

**Datasheet for 600-401-DC9****NOD3 Antibody****Overview**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | Anti-NOD3 (RABBIT) Antibody - 600-401-DC9 |
| <b>Item No.:</b>     | 600-401-DC9                               |
| <b>Size:</b>         | 100 µg                                    |
| <b>Applications:</b> | ELISA, IF, WB                             |
| <b>Reactivity:</b>   | Human, Mouse, Rat                         |
| <b>Host Species:</b> | Rabbit                                    |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | NOD3 is a member of the NOD (nucleotide-binding oligomerization domain) family, a group of proteins that are involved in innate immune defense. NOD3 also known as NLR family CARD containing 3 (NLRC3), is predominantly expressed in the immune system, particularly in T lymphocytes, and its expression is strongly down-regulated following stimulation of the T-cell receptor complex and CD28, suggesting that NOD3 plays a role in attenuating the activation of T cells. NOD3 inhibits NF-kappaB, AP-1 and NFAT transcriptional activation in Jurkat T cells downstream of CD3/CD28 stimulation or treatment with PMA/ionomycin and decreases IL-2 and CD25 mRNA induction in activated cells. |
| <b>Synonyms:</b>     | NOD3 Antibody, NOD3, CLR16.2, NOD3, Protein NLRC3, CARD15-like protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Target Details**

|                        |                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>      | NLRC3                                                                                                                                                                      |
| <b>Reactivity:</b>     | Human, Mouse, Rat                                                                                                                                                          |
| <b>Immunogen Type:</b> | Conjugated Peptide                                                                                                                                                         |
| <b>Immunogen:</b>      | Anti-NOD3 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the internal region of human NOD3. |

**Purity/Specificity:** Anti-NOD3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with NOD3 from other sources has not been determined.

**Relevant Links:**

- [UniProtKB - Q7RTR2](#)
- [GeneID - 197358](#)
- [NCBI - EAW85351](#)

## Application Details

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

**Application Note:** Anti-NOD3 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 115 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

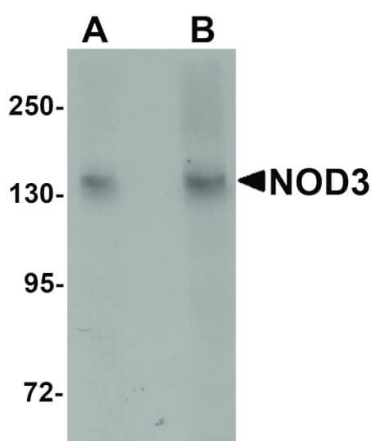
## Shipping & Handling

**Shipping Condition:** Wet Ice

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

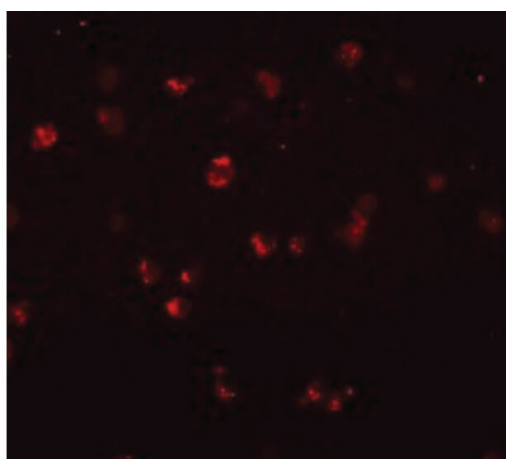
**Expiration:** Expiration date is one (1) year from date of receipt.

## Images



### Western Blot

Western Blot of NOD3 antibody. Lane 1: 3T3 cell lysate with NOD3 antibody at 1 µg/mL. Lane 2: 3T3 cell lysate with NOD3 antibody at 2 µg/mL. 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: 115 kDa, 130 kDa for NOD3. Other band(s): NOD3 splice variants and isoforms.



### Immunofluorescence Microscopy

Immunofluorescence Microscopy of NOD3 antibody. Tissue: Jurkat cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: NOD3 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: NOD3 is cytoplasmic. Staining: NOD3 as red fluorescent signal.

## 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.