

Datasheet for 200-401-DC8**NOD2 Antibody****Overview**

Description:	Anti-NOD2 (RABBIT) Antibody - 200-401-DC8
Item No.:	200-401-DC8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Apaf-1 and NOD1 are members of a new family, which are involved in the regulation of apoptosis and immune response. Each of them contains a caspase recruitment domain (CARD) and a nucleotide-binding oligomerization domain (NOD). A third member in this family was recently identified and designated NOD2. NOD2 interacts with RICK via a homophilic CARD-CARD interaction. NOD2 activates NF-κB, which is regulated by its carboxy-terminal leucine-rich repeat domain that acts as an intracellular receptor for components of bacteria. The variants of NOD2, either a frameshift or a missense, were associated with Crohn's disease that is a main type of chronic inflammatory bowel disease.
Synonyms:	NOD2 Antibody, CD, ACUG, BLAU, IBD1, NLRC2, NOD2B, CARD15, CLR16.3, PSORAS1, Nucleotide-binding oligomerization domain-containing protein 2, Caspase recruitment domain-containing protein 15
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NOD2
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Rabbit NOD2 polyclonal antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to 16 amino acids at the N-terminus of human NOD2.
Purity/Specificity:	Anti-NOD2 Antibody was Protein A purified from monospecific antiserum by immunoaffinity purification. NOD2 has no cross-reaction with NOD1.
Relevant Links:	• UniProtKB - Q9HC29 • GeneID - 64127 • NCBI - NP_001280486.1 • 200-401-DC8 SDS

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-NOD2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry, 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:	1:10,000-1:40,000
IF:	10 µg/mL
IHC:	5 µg/mL
WB:	1 to 4 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

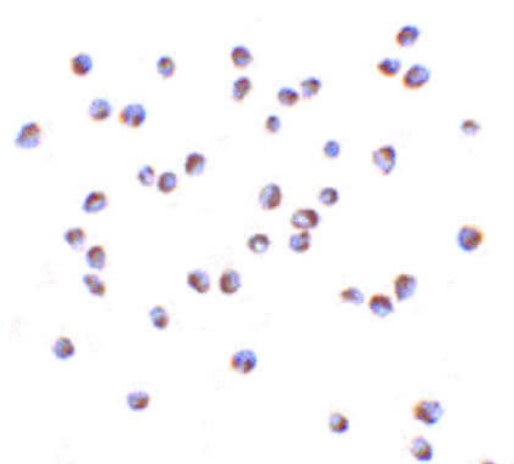
Shipping & Handling

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.

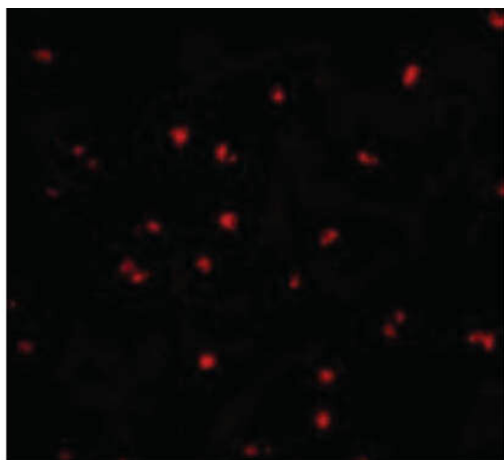
Images



Immunocytochemistry

Immunocytochemistry of NOD2 antibody. Cells: Jurkat cells.

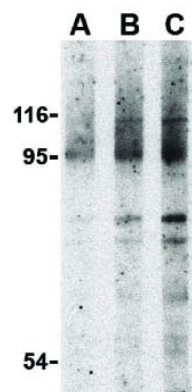
Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: NOD2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: NOD2 is cytoplasmic and is localized in the cell membrane and basolateral membrane. Staining: NOD2 as precipitated brown signal with hematoxylin blue nuclear counterstain.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of NOD2 antibody. Tissue: Jurkat cells.

Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: NOD2 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: NOD2 is cytoplasmic and is also localized in the cell membrane and the basolateral cell membrane. Staining: NOD2 as red fluorescent signal.

**Western Blot**

Western Blot of NOD2 antibody. Lane 1: Jurkat cell lysate with NOD2 at 1 $\mu\text{g/mL}$. Lane 2: Jurkat cell lysate with NOD2 at 2 $\mu\text{g/mL}$. Lane 3: Jurkat cell lysate with NOD2 at 4 $\mu\text{g/mL}$. 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: 115.3 kDa, 95 kDa for NOD2. Other band(s): NOD2 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.