

**NOD3 / NLRC3 Antibody (Internal)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS13985****Specification**

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**NOD3 / NLRC3 Antibody (Internal) - Product Information**

|                   |                                                    |
|-------------------|----------------------------------------------------|
| Application       | WB, IHC-P, IF, E                                   |
| Primary Accession | <a href="#">Q7RTR2</a>                             |
| Reactivity        | Human, Mouse, Rat                                  |
| Host              | Rabbit                                             |
| Clonality         | Polyclonal                                         |
| Calculated MW     | 115kDa KDa                                         |
| Dilution          | WB~~1:1000<br>IHC-P~~N/A<br>IF~~1:50~200<br>E~~N/A |

**NOD3 / NLRC3 Antibody (Internal) - Additional Information****Gene ID** 197358**Other Names**

Protein NLRC3, CARD15-like protein, Caterpillar protein 16.2, CLR16.2, Nucleotide-binding oligomerization domain protein 3, NLRC3, NOD3

**Target/Specificity**

Human NLRC3

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

**Precautions**

NOD3 / NLRC3 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

**NOD3 / NLRC3 Antibody (Internal) - Protein Information****Name** NLRC3**Synonyms** NOD3**Function**

Negative regulator of the innate immune response (PubMed:<a href="http://www.uniprot.org/citations/15705585" target="\_blank">15705585</a>, PubMed:<a href="http://www.uniprot.org/citations/22863753" target="\_blank">22863753</a>, PubMed:<a href="http://www.uniprot.org/citations/25277106" target="\_blank">25277106</a>). Attenuates signaling pathways activated by Toll-like receptors (TLRs) and the DNA sensor STING/TMEM173 in response to pathogen-associated molecular patterns, such as intracellular poly(dA:dT), but not

poly(I:C), or in response to DNA virus infection, including that of Herpes simplex virus 1 (HSV1) (By similarity) (PubMed:<a href="http://www.uniprot.org/citations/22863753" target="\_blank">22863753</a>). May affect TLR4 signaling by acting at the level of TRAF6 ubiquitination, decreasing the activating 'Lys-63'-linked ubiquitination and leaving unchanged the degradative 'Lys-48'-linked ubiquitination (PubMed:<a href="http://www.uniprot.org/citations/22863753" target="\_blank">22863753</a>). Inhibits the PI3K-AKT-mTOR pathway possibly by directly interacting with the posphatidylinositol 3-kinase regulatory subunit p85 (PIK3R1/PIK3R2) and disrupting the association between PIK3R1/PIK3R2 and the catalytic subunit p110 (PIK3CA/PIK3CB/PIK3CD) and reducing PIK3R1/PIK3R2 activation. Via its regulation of the PI3K-AKT-mTOR pathway, controls cell proliferation, predominantly in intestinal epithelial cells (By similarity). May also affect NOD1- or NOD2-mediated NF-kappa-B activation (PubMed:<a href="http://www.uniprot.org/citations/25277106" target="\_blank">25277106</a>). Might also affect the inflammatory response by preventing NLRP3 inflammasome formation, CASP1 cleavage and IL1B maturation (PubMed:<a href="http://www.uniprot.org/citations/25277106" target="\_blank">25277106</a>).

### Cellular Location

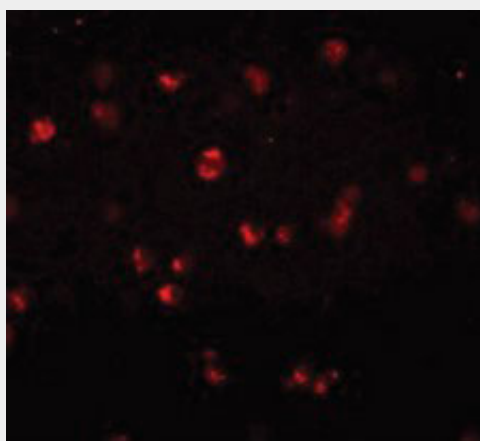
Cytoplasm

### NOD3 / NLRC3 Antibody (Internal) - Protocols

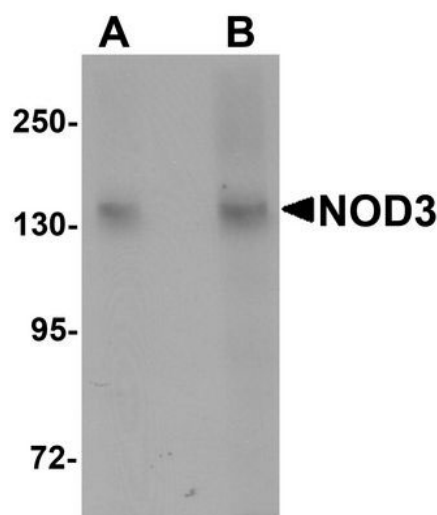
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

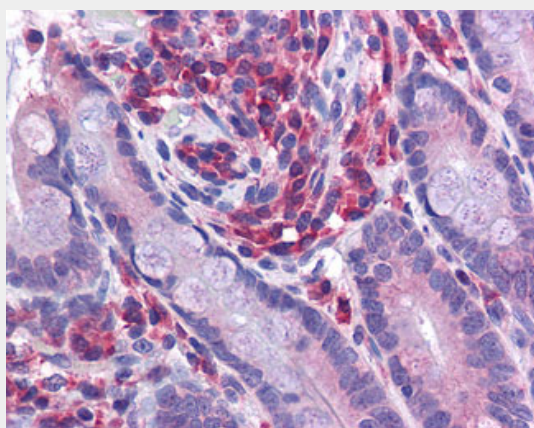
### NOD3 / NLRC3 Antibody (Internal) - Images



Immunofluorescence of NOD3 in Jurkat cells with NOD3 antibody at 20 ug/ml.



Western blot analysis of NOD3 in 3T3 cell lysate with NOD3 antibody at (A) 1 and (B) 2 ug/ml.



Anti-NLRC3 antibody IHC of human small intestine.

#### **NOD3 / NLRC3 Antibody (Internal) - Background**

May modulate T-cell activation. Decreases the transcription of genes that are normally up-regulated after T-cell stimulation. Delays degradation of NFkBIA/IKBA.

#### **NOD3 / NLRC3 Antibody (Internal) - References**

- Inohara N.,et al.Nat. Rev. Immunol. 3:371-382(2003).
- Conti B.J.,et al.J. Biol. Chem. 280:18375-18385(2005).
- Jikuya H.,et al.DNA Res. 10:49-57(2003).
- Jikuya H.,et al.Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
- Huse K.,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.