

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

NOD3 / NLRC3 Antibody (Internal) - Product Information

Application	IF, WB, IHC
Primary Accession	Q7RTR2
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	115kDa KDa

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: 15705585, PubMed: 22863753, PubMed: 25277106). 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: 22863753). 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:22863753). Inhibits the PI3K-AKT-mTOR pathway possibly by directly interacting with the phosphatidylinositol 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:25277106). Might also affect the inflammatory response by preventing NLRP3 inflammasome formation, CASP1 cleavage and IL1B maturation (PubMed:25277106).

Cellular Location

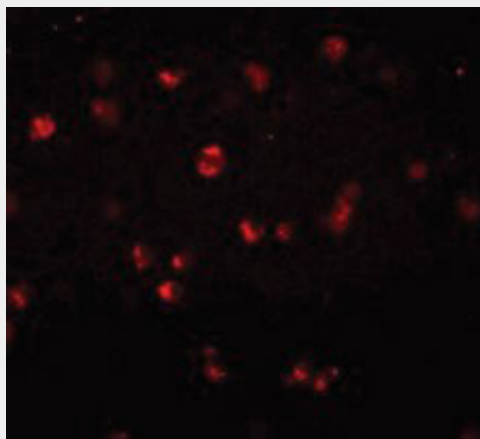
Cytoplasm

NOD3 / NLRC3 Antibody (Internal) - Protocols

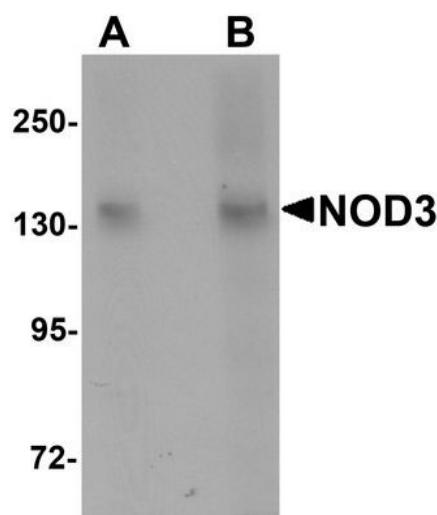
Provided below are standard protocols that you may find useful for product applications.

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

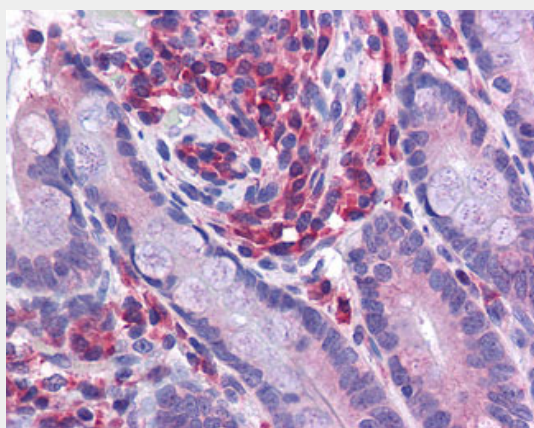
NOD3 / NLRC3 Antibody (Internal) - Images



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.