

**NLRC3 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP57461****Specification**

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**NLRC3 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">Q7RTR2</a>
Reactivity	Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	115 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NLRC3
Epitope Specificity	721-820/1065
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
SIMILARITY	Belongs to the NLRP family. Contains 16 LRR (leucine-rich) repeats. Contains 1 NACHT domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

This gene encodes a NOD-like receptor family member. The encoded protein is a cytosolic regulator of innate immunity. This protein directly interacts with stimulator of interferon genes (STING), to prevent its proper trafficking, resulting in disruption of STING-dependent activation of the innate immune response. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]

**NLRC3 Polyclonal Antibody - Additional Information****Gene ID** 197358**Other Names**

NLR family CARD domain-containing protein 3, CARD15-like protein, Caterpillar protein 16.2, CLR16.2, NACHT, LRR and CARD domains-containing protein 3, Nucleotide-binding oligomerization domain protein 3, NLRC3, NOD3

**Target/Specificity**

Detected in peripheral blood mononuclear cells.

**Dilution**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_ICC">ICC~~N/A</span><br \><span class = "dilution\_E">E~~N/A</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**NLRC3 Polyclonal Antibody - 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

**NLRC3 Polyclonal Antibody - 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](#)

### **NLRC3 Polyclonal Antibody - Images**