

Rabbit NLRC3 Polyclonal Antibody | anti-NLRC3 antibody

NLRC3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329002	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%)	ELISA

PRODUCT SYNONYMS

NLRC3; Polyclonal Antibody; NLRC3 Antibody; CARD15-like; CARD15-like protein; Caterpillar 16.2; Caterpillar protein 16.2; CLR16.2; FLJ00348; NLR family CARD domain containing 3; Nlrc3; NLRC3_HUMAN; NOD-like receptor C3; NOD3; NOD3 protein; Nucleotide-binding oligomerization domain protein 3; Nucleotide-binding oligomerization domain protein 3 caterpillar 16.2; nucleotide-binding oligomerization domain; leucine rich repeat and CARD domain containing 3; Protein NLRC3; anti-NLRC3 antibody

PRODUCT SPECIFICATIONS

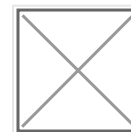
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	NLRC3 Antibody detects endogenous levels of total NLRC3.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	1112
Applicable Applications for anti-NLRC3 antibody	ELISA
Immunogen	A synthesized peptide derived from human NLRC3, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA329002 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329002 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from 3T3, using NLRC3 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NLRC3 antibody	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). Subcellular Location: Cytoplasm. Subunit Structure: Directly interacts (via CARD) with TMEM173/STING; this interaction reduces TMEM173 trafficking to the perinuclear region in response to interferon stimulatory DNA. Also interacts, but to a lesser extent, with TBK1 (PubMed:24560620). Interacts with TRAF6; this interaction results in decreased TRAF6 'Lys-63'-linked polyubiquitination, but leaves 'Lys-48'-linked chains unchanged, promoting TRAF6 protein degradation (PubMed:22863753). Interacts with PIK3R1/PIK3R2; this interaction disrupts the association between PIK3R1/PIK3R2 and the p110 catalytic subunit PIK3CA/PIK3CB/PIK3CD and reduces PIK3R1/PIK3R2 activation (By similarity). Weakly interacts with PYCARD/ASC. Interacts with CASP1 and CASP5 (PubMed:25277106). Similarity: The leucine-rich repeat domain may reduce the interaction with TMEM173/STING. Belongs to the NLRP family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	119605757
NCBI GeneID	197358
UniProt Accession #	Q7RTR2
Molecular Weight	Observed Molecular Weight: (Observed)114kD. Predicted Molecular Weight: (Calculated)115kDa.
NCBI Official Full Name	NOD3 protein, isoform CRA_d
NCBI Official Synonym Full Names	NLR family CARD domain containing 3
NCBI Official Symbol	NLRC3
NCBI Official Synonym Symbols	NOD3; CLR16.2
NCBI Protein Information	NLR family CARD domain-containing protein 3
UniProt Protein Name	Protein NLRC3
UniProt Gene Name	NLRC3
UniProt Synonym Gene Names	NOD3; CLR16.2
UniProt Entry Name	NLRC3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.