

Datasheet for ABIN3032021
anti-NLRP3 antibody (N-Term)



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7 Images

Overview

Quantity:	100 µg
Target:	NLRP3
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NLRP3 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	An amino acid sequence from the N-terminus of human NLRP3 (RYLEDLEDVDLKKFKMHLED) was used as the immunogen for this NLRP3 antibody.
Isotype:	Ig Fraction
Purification:	Antigen affinity

Target Details

Target:	NLRP3
Alternative Name:	NLRP3 (NALP3) (NLRP3 Products)
Background:	NOD-like receptor family pyrin domain containing 3, also known as CIAS1, CRYOPYRIN, NALP3 or PYPAF1, is a protein that in humans is encoded by the NLRP3 gene. The gene encodes a

Target Details

pyrin-like protein expressed predominantly in peripheral blood leukocytes. NLRP3 interacts with apoptosis-associated speck-like protein containing a CARD(ASC). The encoded protein may play a role in the regulation of inflammation and apoptosis. Mutation of the proteins nucleotide-binding domain reduced ATP binding, Caspase-1 activation, IL-1b production, cell death, macromolecular complex formation, self-association, and association with ASC. Consistent with an essential role for NLRP3 inflammasomes in antifungal immunity, Gross et al. showed that deficient mice are hypersusceptible to C. albicans infection. Activation of the NLRP3 inflammasome in response to virus or to RNA was dependent upon lysosomal maturation and reactive oxygen species production in human cells. The NLRP3 inflammasome senses obesity-associated danger signals and contributes to obesity-induced inflammation and insulin resistance.

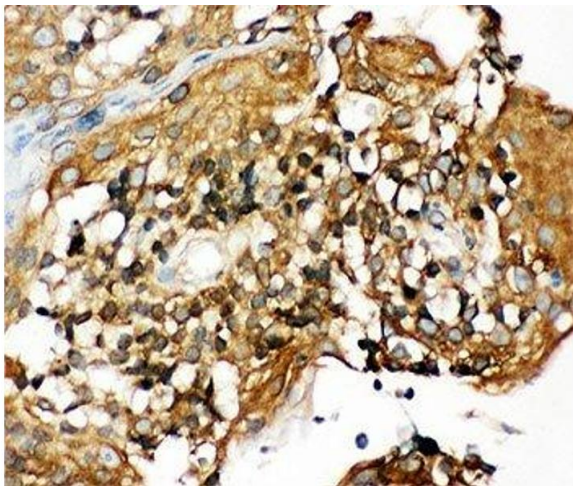
UniProt:	Q96P20
Pathways:	Cellular Response to Molecule of Bacterial Origin , Positive Regulation of Endopeptidase Activity , Inflammasome

Application Details

Application Notes:	The stated application concentrations are suggested starting points. Titration of the NLRP3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL,IHC (Paraffin): 0.5-1 µg/mL,IF/ICC: 2-3 µg/mL,FACS: 1-3 µg/10 ⁶ cells
Restrictions:	For Research Use only

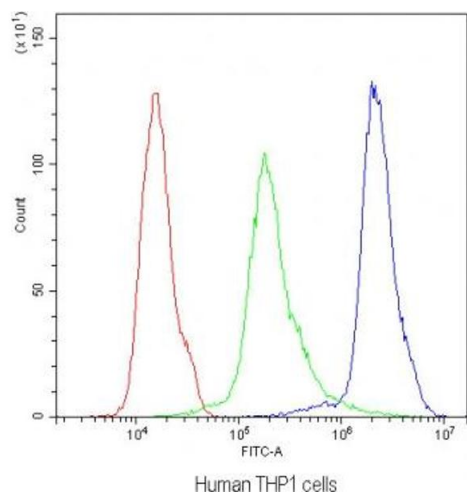
Handling

Buffer:	0.5 mg/mL if reconstituted with 0.2 mL sterile DI water
Storage:	-20 °C
Storage Comment:	After reconstitution, the NLRP3 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.



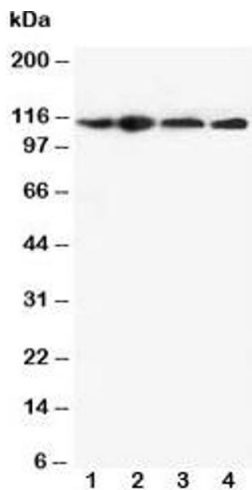
Immunohistochemistry

Image 1. IHC-P: NLRP3 antibody testing of human tonsil tissue



Flow Cytometry

Image 2. Flow cytometry testing of human THP1 cells with NLRP3 antibody at 1ug/10⁶ cells (blocked with goat sera)



Western Blotting

Image 3. Western blot testing of NLRP3 antibody and Lane 1: HEP-2; 2: A549; 3: U87; 4: CEM cell lysate

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3032021.