



[Go to Product page](#)

Datasheet for ABIN3032021

anti-NLRP3 antibody (N-Term)

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), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), 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-1 β 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 μ g/mL,IHC (Paraffin): 0.5-1 μ g/mL,IF/ICC: 2-3 μ g/mL,FACS: 1-3 μ g/10⁶ cells

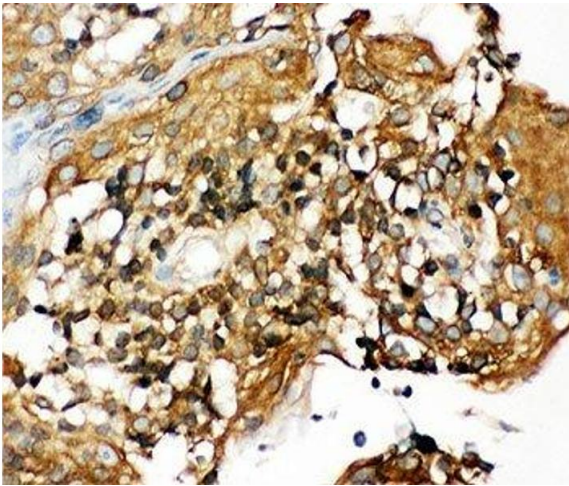
Restrictions: For Research Use only

Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

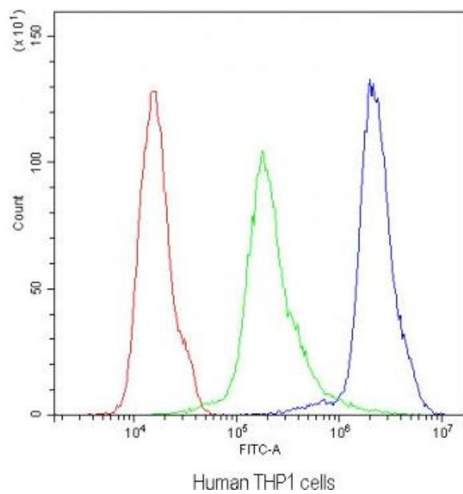
Storage: -20 °C

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.



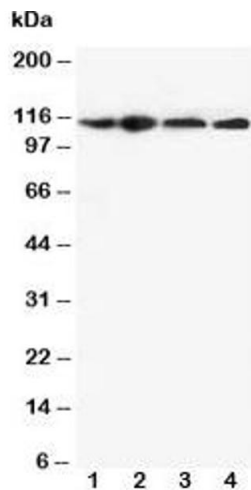
Immunohistochemistry

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.