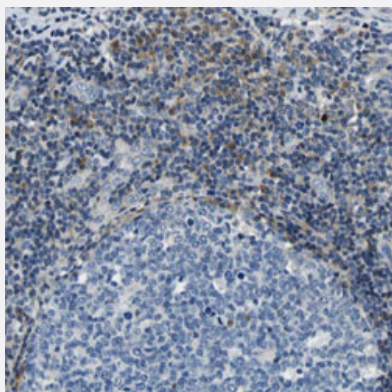


NLRP3 polyclonal antibody

Catalog # PAB31435

Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with NLRP3 polyclonal antibody (Cat # PAB31435) shows moderate cytoplasmic positivity in germinal and non-germinal center cells.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human NLRP3.
Immunogen	Recombinant protein corresponding to human NLRP3.
Sequence	FKMHLEDYPPQKGCIPLPRGQTEKADHVDLATLMIDFNGEKAWAMAVWIFAAINRRDLYEKAKR DEPKWGSDNARVSNPTVICQEDSIEEEWMGLLEYLSRISICKMKKDYRKKYR
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).

Storage Instruction

Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with NLRP3 polyclonal antibody (Cat # PAB31435) shows moderate cytoplasmic positivity in germinal and non-germinal center cells.

Gene Info — NLRP3

Entrez GeneID

[114548](#)

Protein Accession#

[Q96P20](#)

Gene Name

NLRP3

Gene Alias

AGTAVPRL, AII, AII/AVP, AVP, C1orf7, CIAS1, CLR1.1, FCAS, FCU, FLJ95925, MWS, NALP3, PYPAF1

Gene Description

NLR family, pyrin domain containing 3

Omim ID

[120100](#) [191900](#) [606416](#) [607115](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes a pyrin-like protein containing a pyrin domain, a nucleotide-binding site (NBS) domain, and a leucine-rich repeat (LRR) motif. This protein interacts with the apoptosis-associated speck-like protein PYCARD/ASC, which contains a caspase recruitment domain, and is a member of the NALP3 inflammasome complex. This complex functions as an upstream activator of NF- κ B signaling, and it plays a role in the regulation of inflammation, the immune response, and apoptosis. Mutations in this gene are associated with familial cold autoinflammatory syndrome (FCAS), Muckle-Wells syndrome (MWS), chronic infantile neurological cutaneous and articular (CINCA) syndrome, and neonatal-onset multisystem inflammatory disease (NOMID). Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. Alternative 5' UTR structures are suggested by available data; however, insufficient evidence is available to determine if all of the represented 5' UTR splice patterns are biologically valid. [provided by RefSeq]

Other Designations

AII/AVP receptor-like|NACHT domain-, leucine-rich repeat-, and PYD-containing protein 3|NACHT, LRR and PYD containing protein 3|OTTHUMP00000038408|OTTHUMP00000038409|OTTHUMP00000038410|PYRIN-containing APAF1-like protein 1|angiotensin/vasopressin receptor

Publication Reference

- [NLRP3 Inflammasome Expression and Activation in Human Atherosclerosis.](#)

Paramel Varghese G, Folkersen L, Strawbridge RJ, Halvorsen B, Yndestad A, Ranheim T, Krohg-Sørensen K, Skjelland M, Espevik T, Aukrust P, Lengquist M, Hedin U, Jansson J, Fransén K, Hansson GK, Eriksson P, Sirsjö A.

Journal of the American Heart Association 2016 May; 5(5):e003031.

Application: IHC-P, Human, Human carotid artery plaque tissues

- [Unsaturated fatty acids prevent activation of NLRP3 inflammasome in human monocytes/macrophages.](#)

L'homme L, Esser N, Riva L, Scheen A, Paquot N, Piette J, Legrand-Poels S.

Journal of Lipid Research 2013 Nov; 54(11):2998.

Application: WB-Ce, WB-Tr, Human, Human monocytes/macrophages, THP-1 cells

- [Cutting edge: miR-223 and EBV miR-BART15 regulate the NLRP3 inflammasome and IL-1 \$\beta\$ production.](#)

Haneklaus M, Gerlic M, Kurowska-Stolarska M, Rainey AA, Pich D, McInnes IB, Hammerschmidt W, O'Neill LA, Masters SL.

Journal of Immunology 2012 Oct; 189(8):3795.

Application: WB-Ce, WB-Tr, Human, Human macrophages, THP-1 cells

- [Chlamydial infection of monocytes stimulates IL-1 \$\beta\$ secretion through activation of the NLRP3 inflammasome.](#)

Abdul-Sater AA, Saïd-Sadier N, Padilla EV, Ojcius DM.

Microbes and Infection 2010 Aug; 12(8-9):652.

Application: WB-Tr, Human, THP-1 cells

- [Aspergillus fumigatus stimulates the NLRP3 inflammasome through a pathway requiring ROS production and the Syk tyrosine kinase.](#)

Saïd-Sadier N, Padilla E, Langsley G, Ojcius DM.

PLoS One 2010 Apr; 5(4):e10008.

Application: WB-Tr, Human, THP-1 cells

- [Inflammasome-dependent caspase-1 activation in cervical epithelial cells stimulates growth of the intracellular pathogen Chlamydia trachomatis.](#)

Abdul-Sater AA, Koo E, Hacker G, Ojcius DM.

The Journal of Biological Chemistry 2009 Sep; 284(39):26789.

Application: WB-Tr, Human, HeLa cells

Disease

- [Amyloidosis](#)

- [Anaphylaxis](#)
- [Arthritis](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Autoimmune Diseases](#)
- [Behcet Syndrome](#)
- [Candidiasis](#)
- [Cardiovascular Diseases](#)
- [Chlamydia Infections](#)
- [Colitis](#)
- [Crohn Disease](#)
- [Dermatitis](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Drug Hypersensitivity](#)
- [Edema](#)
- [Fallopian Tube Diseases](#)
- [Familial Mediterranean fever](#)
- [Food Hypersensitivity](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Neoplasms](#)
- [HIV Infections](#)
- [Hypertension](#)
- [Infertility](#)
- [Inflammation](#)

- [Inflammatory Bowel Diseases](#)
- [Mycoplasma Infections](#)

- [NARP](#)

- [Recurrence](#)

- [Syndrome](#)

- [Vulvar Vestibulitis](#)