

## Datasheet: AHP1774

<b>Description:</b>	GOAT ANTI HUMAN NALP3 (C-TERMINAL)
<b>Specificity:</b>	NALP3 (C-TERMINAL)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µg

### Product Details

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin (1)	▪			2.5ug/ml
ELISA	▪			1/32000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

#### Target Species

Human

#### Species Cross Reactivity

Reacts with: Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

Purified IgG - liquid

#### Antiserum Preparation

Antisera to human NALP3 were raised by repeated immunisation of goats with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography.

#### Buffer Solution

TRIS buffered saline

#### Preservative

0.02% Sodium Azide (NaN<sub>3</sub>)

<b>Stabilisers</b>	0.5% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5mg/ml
<b>Immunogen</b>	Synthetic peptide sequence corresponding to C-EKPELTVVFEPWS from the C Terminus of Human NALP3 (NP_004886).
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q96P20</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">114548</a>    NLRP3    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	C1orf7, CIAS1, NALP3, PYPAF1
<b>RRID</b>	AB_2152456
<b>Specificity</b>	<p><b>Goat anti Human NALP3 antibody</b> recognizes human NACHT, LRR and PYD domains-containing protein 3 (NALP3), also known as Angiotensin/vasopressin receptor AII/AVP-like, Caterpillar protein 1.1 or Cryopyrin. NALP3 is a 1036 amino acid ~120kDa cytoplasmic protein belonging to the NLRP family, containing a single <a href="#">DAPIN</a> domain, nine <a href="#">leucine-rich repeats</a> and a single <a href="#">NACHT</a> domain (<a href="#">UniProt: Q96P20</a>) .</p> <p>NALP3 is involved in inflammation and immune responses. NALP3 may function as an activator of NF-kappaB signaling and play a role in the regulation of inflammation and apoptosis (<a href="#">Choi and Ryter 2014</a>). NALP3 is strongly expressed in polymorphonuclear cells, osteoblasts and chondrocytes, NALP3 can also be detected in non-keratinizing epithelia of oropharynx, esophagus and ectocervix and in the urothelial layer of the bladder.</p> <p>Mutations in the NALP3 gene have been associated with familial cold autoinflammatory syndrome (<a href="#">Hoffman et al. 2001</a>), Muckle-Wells syndrome (<a href="#">Dodé et al. 2002</a>), chronic infantile neurological cutaneous and articular syndrome (<a href="#">Feldmann et al. 2002</a>) and neonatal-onset multisystem inflammatory disease (<a href="#">Aksentijevich et al. 2002</a>).</p> <p>Goat anti Human NALP3 antibody has been used successfully for the detection of NALP3 in the eyes of rats by immunohistochemistry on formalin fixed, paraffin embedded sections (<a href="#">Liu et al. 2014</a>).</p>
<b>References</b>	1. Liu, R.T. <i>et al.</i> (2014) Vinpocetine inhibits amyloid-beta induced activation of NF-κB, NLRP3 inflammasome and cytokine production in retinal pigment epithelial cells. <a href="#">Exp Eye Res. pii: S0014-4835(14)00185-7.</a>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may</p>

denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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<b>Guarantee</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10058 available at: 10058: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...) [HRP](#)

### Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[100x ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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