

For Research Use Only

# NLRP3 Polyclonal antibody, PBS Only

Catalog Number: 27458-1-PBS

Featured Product



## Basic Information

**Catalog Number:**

27458-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG26272

**GenBank Accession Number:**

NM\_001079821

**GeneID (NCBI):**

114548

**UNIPROT ID:**

Q96P20

**Full Name:**

NLR family, pyrin domain containing 3

**Calculated MW:**

118 kDa

**Observed MW:**

110 kDa

**Purification Method:**

Antigen affinity purification

## Applications

**Tested Applications:**

WB, IF/ICC, IP, Indirect ELISA

**Species Specificity:**

human

## Background Information

NLRP3, also named as NALP3, CIASI, C1orf7, PYPAF1, Cryopyrin and MIM606416, belongs to NLR family. NLRP3, a key and eponymous component of the NLRP3 inflammasome, plays a crucial role in innate immunity and inflammation. NLRP3 inflammasome is expressed in immune cells, including monocytes, macrophages, and dendritic cells. When the NLRP3 inflammasome is activated, the PYD domain of NLRP3 mediates recruitment of an adaptor protein called ASC and the effector protein procaspase-1 to form an NLRP3 inflammasome complex that can cleave inactive procaspase-1 to form active caspase-1. And then the active caspase-1 results in secretion of interleukin (IL)-18 and IL-1 $\beta$ . Activation of the NLRP3 inflammasome is also required for HMGB1 secretion. Inflammasomes can also induce pyroptosis, an inflammatory form of programmed cell death (PMID:27669650). NLRP3 has some isoforms with the MW of 106-118 kDa and 75-83 kDa.

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS only, pH7.3

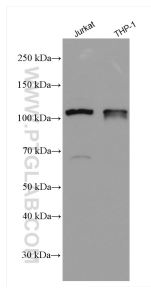
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

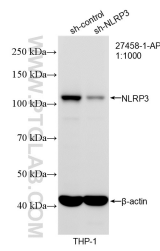
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

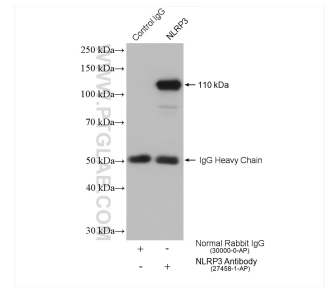
## Selected Validation Data



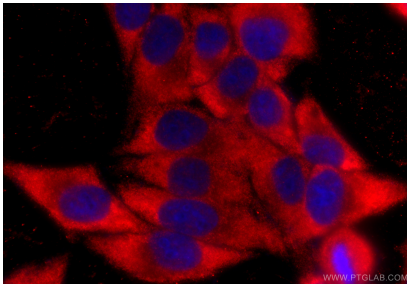
Various lysates were subjected to SDS PAGE followed by western blot with 27458-1-AP (NLRP3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 27458-1-PBS in a different storage buffer formulation.



WB result of NLRP3 antibody (27458-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NLRP3 transfected THP-1 cells. This data was developed using the same antibody clone with 27458-1-PBS in a different storage buffer formulation.



IP result of anti-NLRP3 (IP:27458-1-AP, 4ug; Detection:27458-1-AP 1:800) with THP-1 cells lysate 1520 ug. This data was developed using the same antibody clone with 27458-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using NLRP3 antibody (27458-1-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4). This data was developed using the same antibody clone with 27458-1-PBS in a different storage buffer formulation.