

For Research Use Only

# NLRP6 Polyclonal antibody, PBS Only

Catalog Number: 30973-1-PBS

Featured Product



## Basic Information

**Catalog Number:**

30973-1-PBS

**Size:**

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

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG34516

**GenBank Accession Number:**

NM\_138329.2

**GeneID (NCBI):**

171389

**UNIPROT ID:**

P59044

**Full Name:**

NLR family, pyrin domain containing 6

**Calculated MW:**

99 kDa

**Observed MW:**

98-105 kDa

**Purification Method:**

Antigen affinity purification

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, Indirect ELISA

**Species Specificity:**

human, mouse, rat

## Background Information

NOD-like receptor family pyrin domain containing 6 (NLRP6) is also named as NACHT, LRR and PYD domains-containing protein 6 and ZFML, Angiotensin II/vasopressin receptor, NALP6 and PYPAF5. NLRP6 forms a complex with ASC and caspase-1 or caspase-11 to form an inflammasome complex cleaving pro-interleukin-1 $\beta$  (IL-1 $\beta$ ) and IL-18 into their biologically active forms. The function of NLRP6 has been attributed to the maintenance of epithelial integrity and host defense against microbial infections (PMID: 33910012). NLRP6 is reported to be involved in inflammasome activation, regulation of nuclear factor- $\kappa$ B (NF- $\kappa$ B) and mitogen-activated protein kinase (MAPK) signaling, antiviral interferon (IFN) signaling, mucus secretion, and antimicrobial peptide (AMP) production. NLRP6 is a novel NLR family member, that shows high expression in the intestine and liver (in contrast to NLRP3 in myeloid cells), to regulate inflammation and host defense against microbes (PMID: 32386845).

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS only, pH7.3

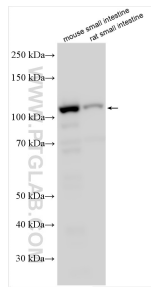
For technical support and original validation data for this product please contact:

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

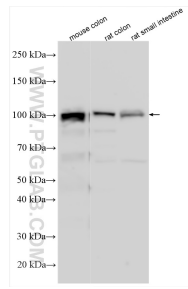
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

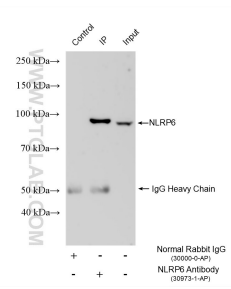
## Selected Validation Data



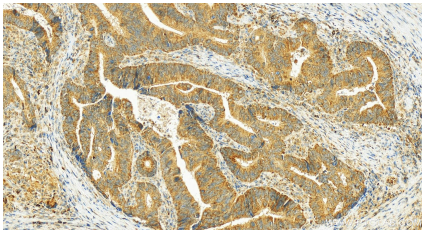
Various lysates were subjected to SDS PAGE followed by western blot with 30973-1-AP (NLRP6 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 30973-1-PBS in a different storage buffer formulation.



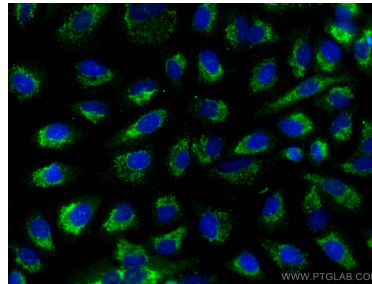
Various lysates were subjected to SDS PAGE followed by western blot with 30973-1-AP (NLRP6 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 30973-1-PBS in a different storage buffer formulation.



IP result of anti-NLRP6 (IP:30973-1-AP, 4ug; Detection:30973-1-AP 1:1500) with mouse colon tissue lysate 1440 ug. This data was developed using the same antibody clone with 30973-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human colon cancer slide using 30973-1-AP (NLRP6 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 30973-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using NLRP6 antibody (30973-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 30973-1-PBS in a different storage buffer formulation.