

For Research Use Only

# NLRP6 Polyclonal antibody

Catalog Number: 30973-1-AP

Featured Product



## Basic Information

**Catalog Number:**

30973-1-AP

**Size:**

150ul, Concentration: 450 µg/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

**Recommended Dilutions:**

WB 1:1000-1:6000

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, ELISA

**Species Specificity:**

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB: mouse small intestine tissue, rat small intestine tissue

IHC: human colon cancer,

IF/ICC: A549 cells,

## 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 -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

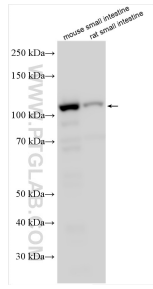
For technical support and original validation data for this product please contact:

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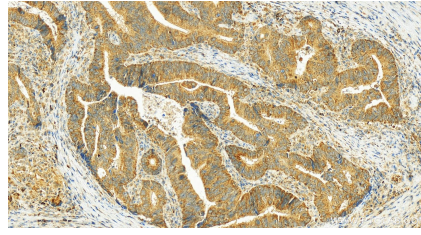
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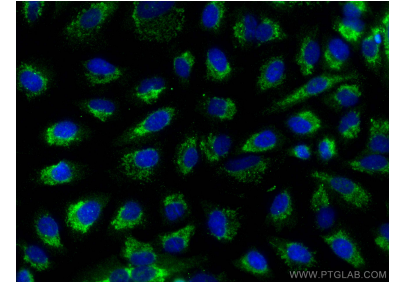
## Selected Validation Data



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.



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).



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).