# NLRP3 (PT0049R) PT™ Rabbit mAb

CatalogNo: YM8024 Recombinant

## Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,

Applications
- WB,IHC,IF,IP,ELISA

MW
- 118kD (Calculated)

118kD (Observed)

Isotype
- IgG,Kappa

## Recommended Dilution Ratios

**IHC 1:200-1000**
**WB 1:500-5000**
**IF 1:200-1000**
**ELISA 1:5000-20000**
**IP 1:50-200**

## Storage

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|---|---|
| **Storage*** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Formulation** | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA |

## Basic Information

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|---|---|
| **Clonality** | Monoclonal |
| **Clone Number** | PT0049R |

## Immunogen Information

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|---|---|
| **Specificity** | Endogenous |

## Target Information

**Gene name** NLRP3

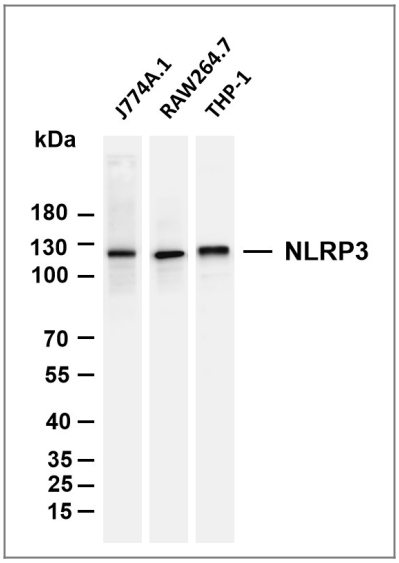
**Protein Name** NACHT LRR and PYD domains-containing protein 3

| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 114548; | Q96P20; |
| Mouse | | Q8R4B8; |

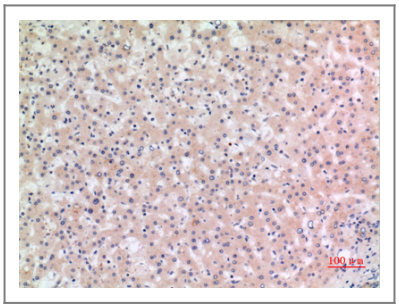
**Cellular Localization** Cytoplasm, Nuclear

**Function** Disease:Defects in NLRP3 are a cause of Muckle-Wells syndrome (MWS) [MIM:191900]; also known as urticaria-deafness-amyloidosis syndrome. MWS is a hereditary periodic fever syndrome characterized by fever, chronic recurrent urticaria, arthralgias, progressive sensorineural deafness, and reactive renal amyloidosis. The disease may be severe if generalized amyloidosis occurs.,Disease:Defects in NLRP3 are the cause of chronic infantile neurologic cutaneous and articular syndrome (CINCA) [MIM:607115]; also known as 'neonatal onset multisystem inflammatory disease,' or NOMID, a rare congenital inflammatory disorder characterized by a triad of neonatal onset of cutaneous symptoms, chronic meningitis, and joint manifestations with recurrent fever and inflammation.,Disease:Defects in NLRP3 are the cause of familial cold autoinflammatory syndrome type 1 (FCAS1) [MIM:120100]; commonly known as familial cold urticaria. FCAS are rare autosomal dominant systemic inflammatory diseases characterized by episodes of rash, arthralgia, fever and conjunctivitis after generalized exposure to cold.,Function:May function as an inducer of apoptosis. Interacts selectively with ASC and this complex may function as an upstream activator of NF-kappa-B signaling. Inhibits TNF-alpha induced activation and nuclear translocation of RELA/NF-KB p65. Also inhibits transcriptional activity of RELA. Activates caspase-1 in response to a number of triggers including bacterial or viral infection which leads to processing and release of IL1B and IL18.,induction:By TNF-alpha.,online information:Repertory of FMF and hereditary autoinflammatory disorders mutations,similarity:Belongs to the NLRP family.,similarity:Contains 1 DAPIN domain.,similarity:Contains 1 NACHT domain.,similarity:Contains 7 LRR (leucine-rich) repeats.,subunit:Interacts with PYCARD/ASC. Part of the NALP3 inflammasome complex which is involved in activation of caspase-1 and caspase-5, leading to processing of IL1B and IL18.,tissue specificity:Expressed in blood leukocytes. Strongly expressed in polymorphonuclear cells and osteoblasts. Undetectable or expressed at a lower magnitude in B- and T-lymphoblasts, respectively. High level of expression detected in chondrocytes. Detected in non-keratinizing epithelia of oropharynx, esophagus and ectocervix and in the urothelial layer of the bladder.,

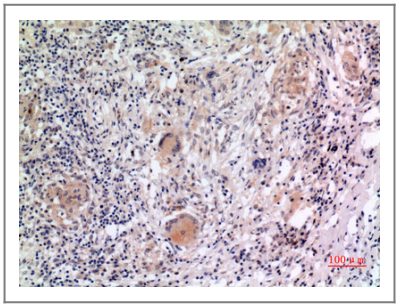
## Validation Data



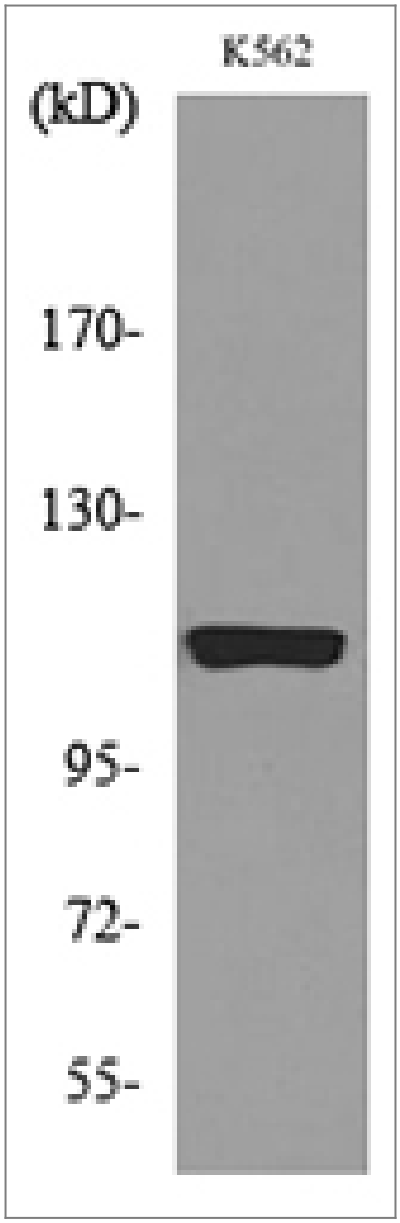

Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-NLRP3 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: J774A.1 Lane 2: RAW264.7 Lane 3: THP-1 Predicted band size: 118kDa Observed band size: 118kDa



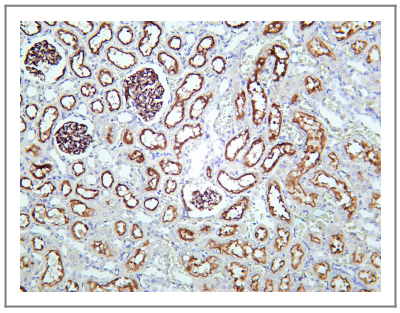
Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-lung, antibody was diluted at 1:100




Western blot analysis of lysate from K562 cells, using NLRP3 Antibody.



Rat kidney tissue was stained with Anti-NLRP3 rabbit Antibody

## Contact information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