

Anti-NLRP3 Antibody [PSH19-43]

HA724075



Product Type: Recombinant Rabbit monoclonal IgG, primary antibodies

Species reactivity: Human, Mouse

Applications: WB

Molecular Wt: Predicted band size: 118 kDa

Clone number: PSH19-43

Description: NLR family pyrin domain containing 3 (NLRP3) (previously known as NACHT, LRR, and PYD domains-containing protein 3 [NALP3] and cryopyrin), is a protein that in humans is encoded by the NLRP3 gene located on the long arm of chromosome 1. NLRP3 is expressed predominantly in macrophages and as a component of the inflammasome, detects products of damaged cells such as extracellular ATP and crystalline uric acid. Activated NLRP3 in turn triggers an immune response. Mutations in the NLRP3 gene are associated with a number of organ specific autoimmune diseases.

Immunogen: Recombinant protein within human NLRP3 aa 1-250.

Positive control: THP-1 cell lysate, THP-1 treated with 100ng/mL LPS for 48 hours cell lysate, RAW264.7 cell lysate, J774A.1 cell lysate, RAW264.7 treated with 10µg/mL LPS for 8 hours cell lysate.

Subcellular location: Cytoplasm, Inflammasome, Secreted, Nucleus, Endoplasmic reticulum.

Database links: SwissProt: Q96P20 Human | Q8R4B8 Mouse

Recommended Dilutions:

WB 1:5,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

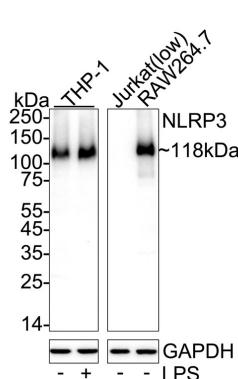
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of NLRP3 on different lysates with Rabbit anti-NLRP3 antibody (HA724075) at 1/5,000 dilution.



Lane 1: THP-1 cell lysate

Lane 2: THP-1 treated with 100ng/mL LPS for 48 hours cell lysate

Lane 3: Jurkat cell lysate (low expression)

Lane 4: RAW264.7 cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 118 kDa

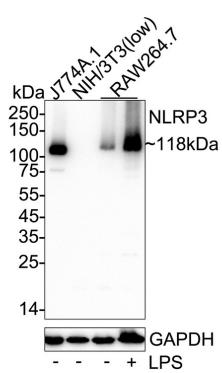
Observed band size: 118 kDa

Exposure time: 1 minute 50 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA724075) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of NLRP3 on different lysates with Rabbit anti-NLRP3 antibody (HA724075) at 1/5,000 dilution.



Lane 1: J774A.1 cell lysate

Lane 2: NIH3T3 cell lysate (low expression)

Lane 3: RAW264.7 cell lysate

Lane 4: RAW264.7 treated with 10µg/mL LPS for 8 hours cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 118 kDa

Observed band size: 118 kDa

Exposure time: 25 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA724075) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Yu T et al. NLRP3 Cys126 palmitoylation by ZDHHC7 promotes inflammasome activation. *Cell Rep.* 2024 Apr
2. Tengesdal IW et al. NLRP3 and cancer: Pathogenesis and therapeutic opportunities. *Pharmacol Ther.* 2023 Nov

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