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NLRP4 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP18739a

Specification

NLRP4 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q96MN2

NLRP4 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 147945

Other Names
NACHT, LRR and PYD domains-containing protein 4, Cancer/testis antigen 58, CT58, PAAD and NACHT-containing protein 2, PAN2, PYRIN and NACHT-containing protein 2, PYRIN-containing APAF1-like protein 4, PYPAF4, Ribonuclease inhibitor 2, NLRP4, NALP4, PAN2, PYPAF4, RNH2

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NLRP4 Antibody (N-term) Blocking Peptide - Protein Information

Name NLRP4 (HGNC:22943)

Function
May be involved in inflammation and recognition of cytosolic pathogen-associated molecular patterns (PAMPs) not intercepted by membrane-bound receptors. Acts as a negative regulator of the type I interferon signaling pathway by serving as an adapter to promote DTX4- mediated ubiquitination of activated TBK1, and its subsequent degradation. Suppresses NF-kappaB induction by the cytokines TNFA and IL1B, suggesting that it operates at a point of convergence in these two cytokine signaling pathways.

NLRP4 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

NLRP4 Antibody (N-term) Blocking Peptide - Images

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NLRP4 Antibody (N-term) Blocking Peptide - Background

NALPs are cytoplasmic proteins that form a subfamilywithin the larger CATERPILLER protein family. Most short NALPs,such as NALP4, have an N-terminal pyrin (MEFV; MIM 608107) domain(PYD), followed by a NACHT domain, a NACHT-associated domain (NAD),and a C-terminal leucine-rich repeat (LRR) region. The long NALP,NALP1 (MIM 606636), also has a C-terminal extension containing afunction to find domain (FIIND) and a caspase recruitment domain(CARD). NALPs are implicated in the activation of proinflammatorycaspases (e.g., CASP1; MIM 147678) via their involvement inmultiprotein complexes called inflammasomes (Tschopp et al., 2003[PubMed 12563287]).

NLRP4 Antibody (N-term) Blocking Peptide - References

Cummings, J.R., et al. Tissue Antigens 76(1):48-56(2010)Enjuanes, A., et al. Cancer Res. 68(24):10178-10186(2008)Damiano, J.S., et al. Biochem. J. 381 (PT 1), 213-219 (2004) :Tschopp, J., et al. Nat. Rev. Mol. Cell Biol. 4(2):95-104(2003)Grenier, J.M., et al. FEBS Lett. 530 (1-3), 73-78 (2002) :