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NLRP10 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP13494b

Specification

NLRP10 Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q86W26

NLRP10 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 338322

Other Names
NACHT, LRR and PYD domains-containing protein 10, Nucleotide-binding oligomerization domain protein 8, NLRP10, NALP10, NOD8, PYNOD

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13494b was selected from the C-term region of NLRP10. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

NLRP10 Antibody (C-term) Blocking peptide - Protein Information

Name NLRP10

Synonyms NALP10, NOD8, PYNOD

Function
Inhibits autoprocessing of CASP1, CASP1-dependent IL1B secretion, PYCARD aggregation and PYCARD-mediated apoptosis but not apoptosis induced by FAS or BID (PubMed:15096476). Displays anti- inflammatory activity (PubMed:20393137). Required for immunity against C.albicans infection (By similarity). Involved in the innate immune response by contributing to pro-inflammatory cytokine release in response to invasive bacterial infection (PubMed:22672233). Contributes to T-cell-mediated inflammatory responses in the skin (By similarity). Plays a role in protection against periodontitis through its involvement in induction of IL1A via ERK activation in oral

epithelial cells infected with periodontal pathogens (PubMed:28766990). Exhibits both ATPase and GTPase activities (PubMed:23861819).

Cellular Location
Cytoplasm. Cell membrane; Peripheral membrane protein. Note=Cytoplasmic protein which is recruited to the cell membrane by NOD1 following invasive bacterial infection

Tissue Location
Highly expressed in basal and suprabasal epidermal cell layers with lower levels in dermal fibroblast cells (at protein level) (PubMed:22672233). Widely expressed with highest levels in heart, brain and skeletal muscle (PubMed:15096476). Also expressed in liver, colon, dermis and epidermis (PubMed:15096476). Little expression detected in myeloid cells or peripheral blood mononuclear cells (PubMed:15096476).

NLRP10 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

NLRP10 Antibody (C-term) Blocking peptide - Images

NLRP10 Antibody (C-term) Blocking peptide - Background

Members of the NALP protein family typically contain aNACHT domain, a NACHT-associated domain (NAD), a C-terminalleucine-rich repeat (LRR) region, and an N-terminal pyrin domain(PYD). The protein encoded by this gene belongs to the NALP proteinfamily despite lacking the LRR region. This protein likely plays aregulatory role in the innate immune system. The protein belongs tothe signal-induced multiprotein complex, the inflammasome, thatactivates the pro-inflammatory caspases, caspase-1 and caspase-5.Other experiments indicate that this gene acts as a multifunctionalnegative regulator of inflammation and apoptosis. [provided byRefSeq].

NLRP10 Antibody (C-term) Blocking peptide - References

Cummings, J.R., et al. Tissue Antigens 76(1):48-56(2010)Imamura, R., et al. J. Immunol. 184(10):5874-5884(2010)Ha, H.J., et al. Biochem. Genet. 47 (9-10), 665-670 (2009) :Kinoshita, T., et al. J. Biol. Chem. 280(23):21720-21725(2005)Wang, Y., et al. Int. Immunol. 16(6):777-786(2004)