

For Research Use Only

CoraLite® Plus 488-conjugated NLRP3 Polyclonal antibody

Catalog Number: CL488-19771

Featured Product



Basic Information

Catalog Number:

CL488-19771

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_001127461

GeneID (NCBI):

114548

UNIPROT ID:

Q96P20

Full Name:

NLR family, pyrin domain containing 3

Calculated MW:

118 kDa

Observed MW:

110 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human

Positive Controls:

IF/ICC : HepG2 cells,

FC (Intra) : THP-1 cells,

Background Information

NALP3, also named as C1orf7, CIAS1 and PYPAF1, belongs to the NLRP family. NALP3 may function as an inducer of apoptosis. It interacts selectively with ASC and this complex may function as an upstream activator of NF-kappa-B signaling. NALP3 inhibits TNF-alpha induced activation and nuclear translocation of RELA/NF-KB p65. Also inhibits transcriptional activity of RELA. NALP3 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. Defects in NLRP3 are the cause of familial cold autoinflammatory syndrome type 1 (FCAS1) which also known as familial cold urticaria. Defects in NLRP3 are a cause of Muckle-Wells syndrome (MWS) which is urticaria-deafness-amyloidosis syndrome. Defects in NLRP3 are the cause of chronic infantile neurologic cutaneous and articular syndrome (CINCA) which also known as neonatal onset multisystem inflammatory disease (NOMID). The antibody recognizes the C-term of NALP3.

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

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

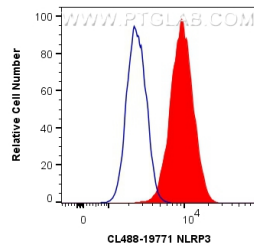
T: 4006900926

E: Proteintech-CN@ptglab.com

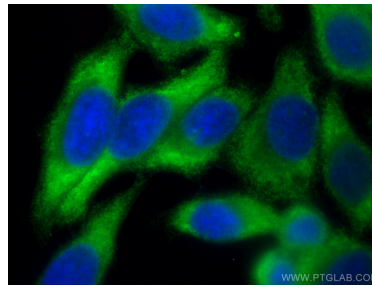
W: ptgcn.com

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Selected Validation Data



1X10⁶ THP-1 cells were intracellularly stained with 0.4 μ g CoraLite® Plus 488 Anti-Human NLRP3 (CL488-19771) (red), or 0.4 μ g Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CoraLite® Plus 488 NLRP3 antibody (CL488-19771) at dilution of 1:200.