

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NLRP3/NALP3 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) NALP1, 2, 5, rhNALP3 (aa 540-689), or recombinant mouse NALP3 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 652514
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human NLRP3/NALP3 Ala4-Val223 Accession # Q96P20
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

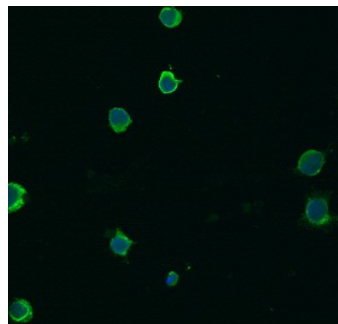
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



NLRP3/NALP3 in Jurkat Human Cell Line. NLRP3/NALP3 was detected in immersion fixed Jurkat human acute T cell leukemia cell line using Mouse Anti-Human NLRP3/NALP3 Monoclonal Antibody (Catalog # MAB6789) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 493-conjugated Anti-Mouse IgG Secondary Antibody (green; Catalog # NL009) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces and cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

NLRP3 (Nacht Leucine-rich repeat Protein 3), also known as NALP3, CIAS1, PYPAF or Cryopyrin is a cytosolic ~120 kDa member of the NLRP family of proteins expressed in leukocytes, especially neutrophils. As a component of the inflammasome, NLRP3 activates caspases 1 and 5. Defects in NLRP3 may cause FCAS1, CINCA, or Muckle-Wells autoinflammatory syndromes. Human NLRP3 contains an N-terminal Pyrin domain (aa 1-93) followed by a Nacht region (aa 220-536), and seven LRRs (aa 740-991). Within the sequence used as an immunogen, human NLRP3 shares 76% and 75% aa identity with mouse and rat NLRP3, respectively. Isoforms of 979, 979, 922 and 719 aa lack aa 720-776, aa 836-892, both regions, or terminate at aa 719.