

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
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

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