

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NALP-3/NALP3 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 447609
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human NALP-3/NALP3 Met3-Val223 Accession # Q96P20
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RGD1 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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
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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 (NAcH 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 NLR 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.

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