

#### DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                      |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human NLRP2/NALP2 in Western blots.                                                |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Sheep IgG                                                                       |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                                  |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human NLRP2/NALP2<br>Met1-Thr208<br>Accession # Q9NX02 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm            |
| <b>Formulation</b>                                                                                                                                                                                      | 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

NALP2 (Nacht Leucine-rich repeat Protein 2, also known as NLRP2 and PAN1) is a cytosolic, 121 kDa member of the NLRP family of proteins. It is expressed in macrophages and exhibits divergent effects on inflammation. Via NFκB, it suppresses TNF-α production in response to LPS; via procaspase-1, it promotes proIL-1β cleavage and release. Human NALP2 is 1062 amino acids (aa) in length. It contains an N-terminal Pyrin domain (aa 9-90), followed by a Nacht region and nine LRRs (aa 467-1033). Four alternate isoforms exist. Three show deletions of aa's 109-132, 133-154 and 847-1062, respectively; a fourth shows a 38 aa substitution for aa's 1-903. No close rodent counterparts have been reported.

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