10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# NALP2 Polyclonal Antibody
**Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP58498**

## Specification

### NALP2 Polyclonal Antibody - Product Information

| | |
|---|---|
| Application | **WB, IHC-P, IHC-F, IF, ICC, E** |
| Primary Accession | Q9NX02 |
| Reactivity | **Rat** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **117 KDa** |
| Physical State | **Liquid** |
| Immunogen | **KLH conjugated synthetic peptide derived from human NACHT, LRR and PYD domains-containing protein 2** |
| Epitope Specificity | **851-1062/1062** |
| Isotype | **IgG** |

**Purity**
affinity purified by Protein A

| | |
|---|---|
| Buffer | **0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.** |
| SUBCELLULAR LOCATION | **Cytoplasm.** |
| SIMILARITY | **Belongs to the NLRP family.Contains 1 DAPIN domain. Contains 8 LRR (leucine-rich) repeats. Contains 1 NACHT domain.** |
| SUBUNIT | **Interacts with CHUK, IKBKB and IKBKG, as well as with full-length PYCARD and with the DAPIN domain of NAPL1, but not the full-length protein.** |
| Important Note | **This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.** |

**Background Descriptions**
NALP proteins, such as NALP2, are characterized by an N-terminal pyrin (MIM 608107) domain (PYD) and are involved in the activation of caspase-1 (CASP1; MIM 147678) by Toll-like receptors (see TLR4; MIM 603030). They may also be involved in protein complexes that activate proinflammatory caspases (Tschopp et al., 2003 [PubMed 12563287]).[supplied by OMIM, Mar 2008].

### NALP2 Polyclonal Antibody - Additional Information

**Gene ID** 55655

**Other Names**
NACHT, LRR and PYD domains-containing protein 2, Nucleotide-binding site protein 1, PYRIN domain and NACHT domain-containing protein 1, PYRIN-containing APAF1-like protein 2, NLRP2,

NALP2, NBS1, PAN1, PYPAF2

**Target/Specificity**
Expressed at high levels in lung, placenta and thymus and at lower levels in ovary, intestine and brain.

**Dilution**
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

**Format**
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

## NALP2 Polyclonal Antibody - Protein Information

**Name** NLRP2

**Synonyms** NALP2, NBS1, PAN1, PYPAF2

**Function**
Suppresses TNF- and CD40-induced NFKB1 activity at the level of the IKK complex, by inhibiting NFKBIA degradation induced by TNF. When associated with PYCARD, activates CASP1, leading to the secretion of mature pro-inflammatory cytokine IL1B. May be a component of the inflammasome, a protein complex which also includes PYCARD, CARD8 and CASP1 and whose function would be the activation of pro-inflammatory caspases.

**Cellular Location**
Cytoplasm

**Tissue Location**
Expressed at high levels in lung, placenta and thymus and at lower levels in ovary, intestine and brain (PubMed:15456791). Highly abundant in oocytes and early embryos, however poorly expressed in somatic tissues such as brain, kidney, liver and spinal cord (PubMed:30877238).

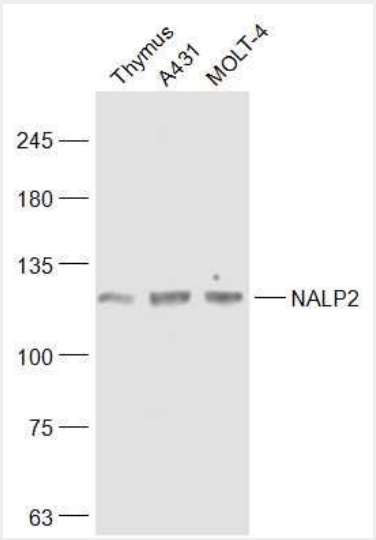
## NALP2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

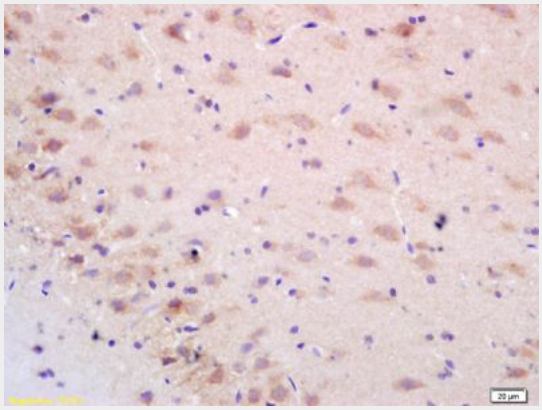
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

## NALP2 Polyclonal Antibody - Images




Sample:
Thymus(Mouse) Lysate at 40 ug
A431(Human) Cell Lysate at 30 ug
Molt-4(Human) Cell Lysate at 30 ug
Primary: Anti-NALP2 (bs-6717R) at 1/500 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 117 kD
Observed band size: 117 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-NALP2/PAN1/PYPAF2 Polyclonal Antibody, Unconjugated(bs-6717R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining