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

NALP2 Rabbit pAb

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Catalog # AP58498

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9NX02
Reactivity	Rat, Human, Mouse
Predicted	Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	120515
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.
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].

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
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C 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 °C.

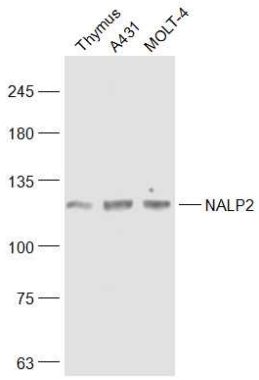
Protein Information

Name	NLRP2 {ECO:0000303|PubMed:30877238, ECO:0000312|HGNC:HGNC:22948}
Function	Component of cytoplasmic lattices, which consist in fibrous structures found in the cytoplasm of oocytes and preimplantation embryos (PubMed:41118754). Cytoplasmic lattices are required to store maternal proteins critical for embryonic development, such as ribosomal proteins, cytoskeletal tubulins and proteins controlling epigenetic reprogramming of the preimplantation embryo, in a poised but restrained state, regulating their availability for early embryonic development (PubMed:41118754). Suppresses TNF- and CD40-induced NFKB1 activity at the level of the IKK complex, by inhibiting NFKBIA degradation induced by TNF (PubMed:15456791). When associated with PYCARD, activates CASP1, leading to the secretion of mature pro-inflammatory cytokine IL1B (PubMed:15456791). 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 (PubMed:15456791).
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).

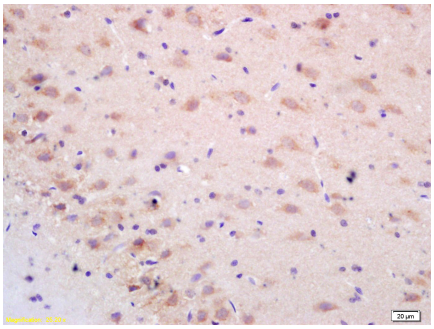
Background

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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 (AP58498) 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(AP58498) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.