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Datasheet for 600-401-CY5

NALP7 Antibody

Overview

Description:	Anti-NALP7 (RABBIT) Antibody - 600-401-CY5
Item No.:	600-401-CY5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	NOD proteins include the apoptosis regulator APAF1 (apoptotic protease activating factor 1) and mammalian NOD-LRR proteins. NALP7, also known as PYPAF3, a member of the related PYRIN-containing APAF1-like proteins (PYPAFs/NALPs) is thought to play a crucial role in cell proliferation. NALP7 has a C-terminal leucine-rich repeat (LRR) region, an N-terminal Pyrin domain (PYD) followed by a NACHT domain, and a NACHT-associated domain. It is expressed in numerous tissues including uterus and ovary, with low levels in heart and brain. NALP7 inhibits caspase-1-dependent interleukin-1b secretion and is a feedback regulator of interleukin-1b secretion. Defects in the NALP7 gene are known to cause the formation of a hydatidiform mole (HYDM) and reduce the growth of carcinoma cell lines.
Synonyms:	NALP7 Antibody, HYDM, PAN7, NALP7, NOD12, PYPAF3, CLR19.4, NACHT, LRR and PYD domains-containing protein 7, Nucleotide-binding oligomerization domain protein 12
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NLRP7
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-NALP7 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the N-terminus of human NALP7.
Purity/Specificity:	Anti-NALP7 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with NALP7 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8WX94 • GeneID - 199713 • NCBI - NP_631915

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-NALP7 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 112 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
IHC:	10 µg/mL
WB:	1 µg/mL

Formulation

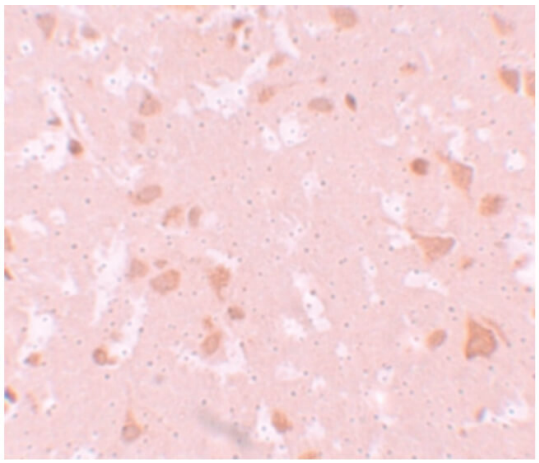
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

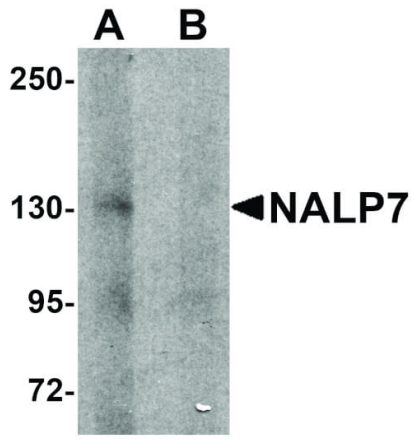
Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Expiration: Expiration date is one (1) year from date of receipt.

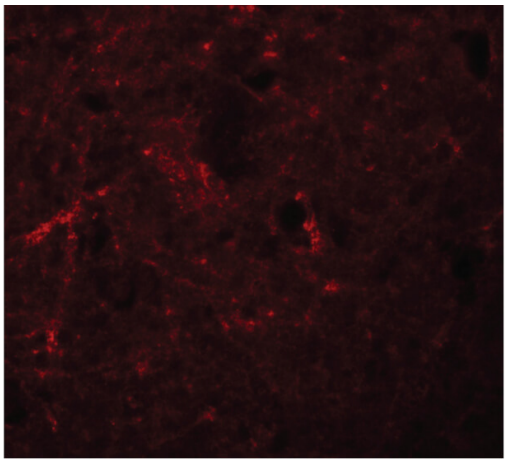
Images



Immunohistochemistry
Immunohistochemistry of NALP7 antibody. Tissue: Human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: NALP7 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: NALP7 as precipitated pink signal with brown nuclear counterstain.



Western Blot
Western Blot of NALP7 antibody. Lane 1: human brain tissue lysate with NALP7 antibody at 1 µg/mL in the absence of blocking peptide. Lane 2: human brain tissue lysate with NALP7 antibody at 1 µg/mL in the presence of blocking peptide. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 112 kDa, 130 kDa for NALP7. Other band(s): NALP7 splice variants and isoforms.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of NALP7 antibody. Tissue: Human brain tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: NALP7 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: NALP7 as red fluorescent signal.

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