

Datasheet for 200-401-CX5**NALP1 Antibody****Overview**

Description:	Anti-NALP1 (RABBIT) Antibody - 200-401-CX5
Item No.:	200-401-CX5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	NALP1 belongs to a family of cytoplasmic proteins that have been implicated in cell responses to apoptotic and inflammatory stimuli. It contains a caspase recruitment domain (CARD) in addition to a NACHT domain and leucine rich repeat (LRR). This protein interacts strongly with caspase 2 and weakly with caspase 9, as well as with Apaf-1. Transient overexpression of this gene in cultured cells was sufficient to induce apoptosis. NALP1 mRNA and protein expression levels in myeloid leukemia cells are increased following CREB (cAMP-response element binding protein) activation, suggesting that NALP1 may contribute to modulate the response of these cells to pro-inflammatory stimuli. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for NALP1.
Synonyms:	NALP1 Antibody, NAC, CARD7, CIDEA, NALP1, SLEV1, DEFCAP, PP1044, VAMAS1, CLR17.1, DEFCAP-L/S, KIAA0926, NAC, NACHT, LRR and PYD domains-containing protein 1, Caspase recruitment domain-containing protein 7
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NLRP1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-NALP1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to 13 amino acids near the C-terminus of human NALP1.
Purity/Specificity:	Anti-NALP1 Antibody was Protein A purified from monospecific antiserum by immunoaffinity purification. Cross reactivity with NALP1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9C000 • GeneID - 22861 • NCBI - AAG30288

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-NALP1 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry, and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 166 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 - 1:40,000
IF:	20 µg/mL
WB:	1-4 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 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

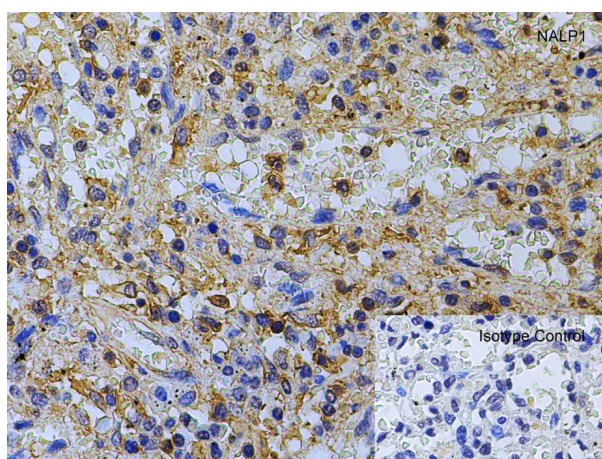
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

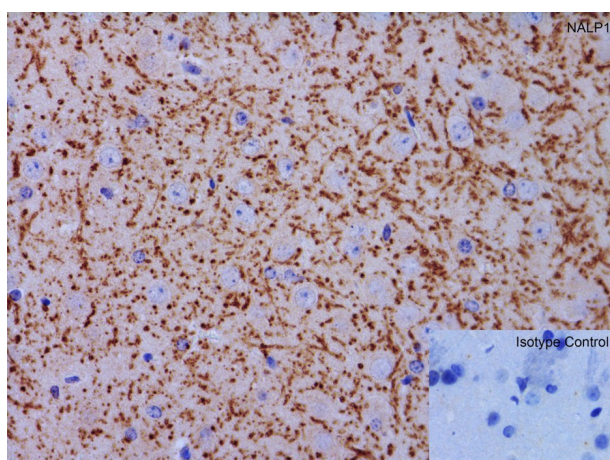
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry Validation of NALP1 in Human Spleen. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-NALP1 antibody at 5 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



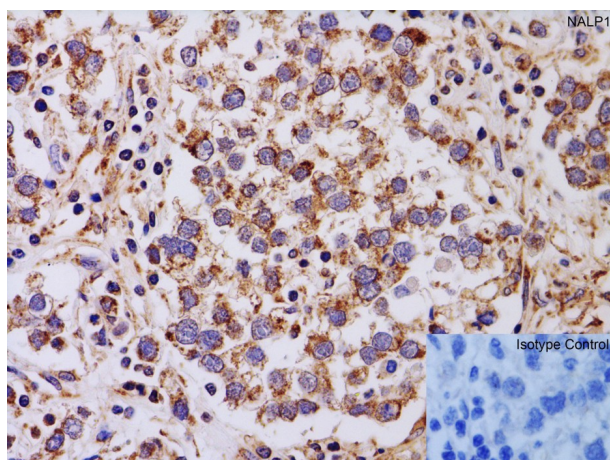
Immunohistochemistry

Immunohistochemistry Validation of NALP1 in Mouse Brain. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-NALP1 antibody at 1 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



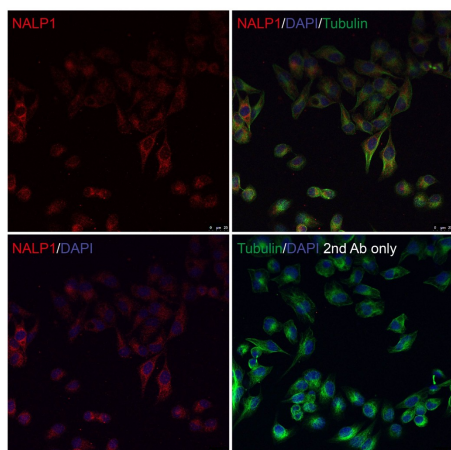
Immunohistochemistry

Immunohistochemistry Validation of NALP1 in Rat Testis. Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-NALP1 antibody at 2 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



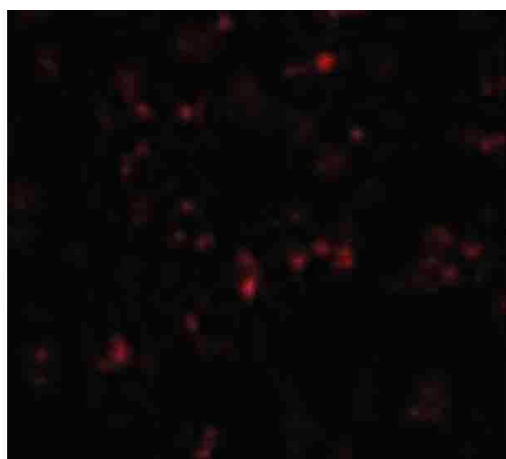
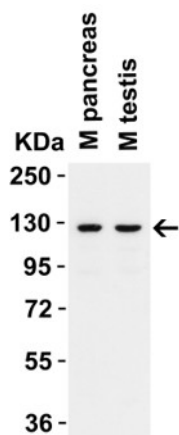
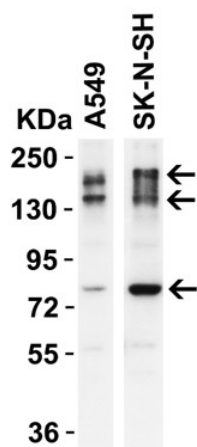
Immunohistochemistry

Immunohistochemistry Validation of NALP1 in Human Testis. Immunohistochemical analysis of paraffin-embedded human testis tissue using anti-NALP1 antibody at 2 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunofluorescence Microscopy

Immunofluorescence Validation of NALP1 In HeLa Cells. Immunofluorescent analysis of methanol-fixed HeLa cells labeling NALP1 at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/1000 dilution (red) and Hoechst staining (blue). Alpha tubulin was stained with anti-alpha tubulin antibody following by goat anti-mouse IgG secondary antibody (green). Images were captured with confocal microscopy.



Western Blot

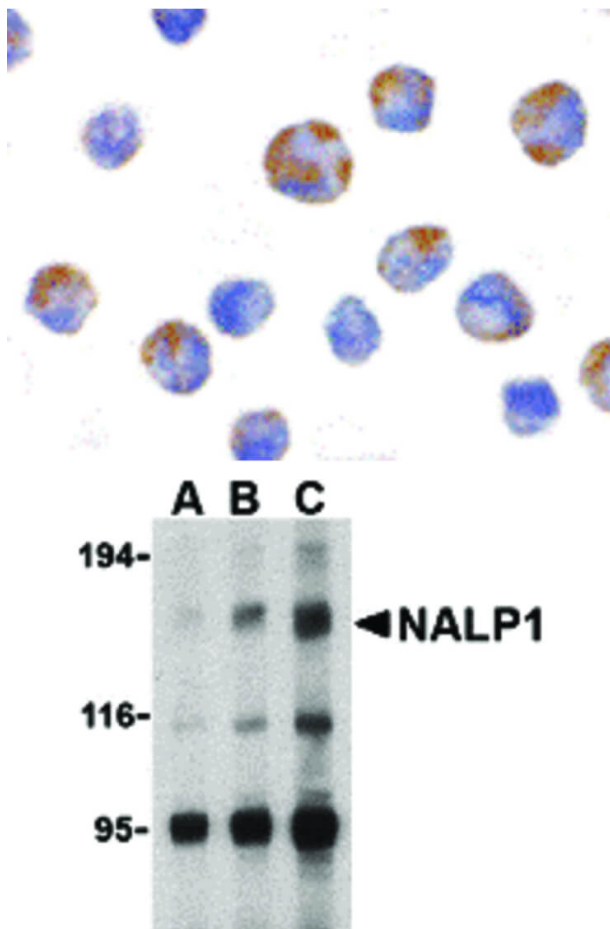
WB Validation in Human Cells. Loading: 15 µg of lysate.
 Antibodies: NALP1, 1 µg/mL, 1 h incubation at RT in 5%
 NFDN/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate
 at 1:10000 dilution.

Western Blot

WB Validation in Mouse Tissues. Loading: 15 µg of lysate.
 Antibodies: NALP1, 1 µg/mL, 1 h incubation at RT in 5%
 NFDN/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate
 at 1:10000 dilution.

Immunofluorescence Microscopy

Immunofluorescence Microscopy of NALP1 antibody. Cell
 Type: K562 cells. Fixation: 0.5% PFA. Antigen retrieval:
 not required. Primary antibody: NALP1 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.
 Localization: NALP1 is nuclear and cytoplasmic. Staining:
 NALP1 as red fluorescent signal.



Immunohistochemistry

Immunocytochemistry of NALP1 antibody. Cell Type: K562 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: NALP1 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. Localization: NALP1 is nuclear and cytoplasmic. Staining: NALP1 is stained with hematoxylin purple nuclear counterstain.

Western Blot

Western Blot of NALP1 antibody. Lane A: U937 cell lysate at 1 µg/ml. Lane B: U937 cell lysate at 2 µg/ml. Lane C: U937 cell lysate at 4 µg/ml. Load: 35 µg per lane. Primary antibody: NALP1 antibody at designated concentrations for overnight at 4°C. 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: 166 kDa, 150 kDa for NALP1. Other band(s): NALP1 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.