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Datasheet for ABIN3044250 anti-NLRP3 antibody (N-Term)

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Overview

Quantity:	100 µg			
Target:	NLRP3			
Binding Specificity:	AA 12-31, N-Term			
Reactivity:	Human, Rat			
Host:	Rabbit			
Clonality:	Polyclonal			
Conjugate:	This NLRP3 antibody is un-conjugated			
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))			
Product Details				
Purpose:	Rabbit IgG polyclonal antibody for NACHT, LRR and PYD domains-containing protein 3(NLRP3)			
	detection. Tested with WB, IHC-P in Human,Mouse,Rat.			
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human CIAS1(12-31aa			
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human CIAS1(12-31aa RYLEDLEDVDLKKFKMHLED), different from the related rat and mouse sequences by one			
Immunogen:				
Immunogen: Sequence:	RYLEDLEDVDLKKFKMHLED), different from the related rat and mouse sequences by one			
	RYLEDLEDVDLKKFKMHLED), different from the related rat and mouse sequences by one amino acid.			
Sequence:	RYLEDLEDVDLKKFKMHLED), different from the related rat and mouse sequences by one amino acid. RYLEDLEDVD LKKFKMHLED			
Sequence: Isotype:	RYLEDLEDVDLKKFKMHLED), different from the related rat and mouse sequences by one amino acid. RYLEDLEDVD LKKFKMHLED IgG			
Sequence: Isotype:	RYLEDLEDVDLKKFKMHLED), different from the related rat and mouse sequences by one amino acid. RYLEDLEDVD LKKFKMHLED IgG Predicted Cross Reactivity: mouse			
Sequence: Isotype:	 RYLEDLEDVDLKKFKMHLED), different from the related rat and mouse sequences by one amino acid. RYLEDLEDVD LKKFKMHLED IgG Predicted Cross Reactivity: mouse No cross reactivity with other proteins. 			

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Product Details	
Characteristics:	Rabbit IgG polyclonal antibody for NACHT, LRR and PYD domains-containing protein 3(NLRP3)
	detection. Tested with WB, IHC-P in Human,Mouse,Rat.
	Gene Name: NLR family, pyrin domain containing 3
	Protein Name: NACHT, LRR and PYD domains-containing protein 3
Purification:	Immunogen affinity purified.

Target Details

Target:	NLRP3			
Alternative Name:	NLRP3 (NLRP3 Products)			
Background:	NLRP3(NLR FAMILY, PYRIN DOMAIN-CONTAINING 3), also known as CIAS1, CRYOPYRIN,			
	NALP3 or PYPAF1, is a protein that in humans is encoded by the NLRP3(NOD-like receptor			
	family, pryin domain containing 3) gene. The NLRP3 gene encodes a pyrin-like protein			
	expressed predominantly in peripheral blood leukocytes. And the NLRP3 gene is mapped on			
	1q44. NLRP3 interacts with apoptosis-associated speck-like protein containing a CARD(ASC).			
	The encoded protein may play a role in the regulation of inflammation and apoptosis. Mutation			
	of the NALP3 nucleotide-binding domain reduced ATP binding, CASP1 activation, IL1B			
	production, cell death, macromolecular complex formation, self-association, and association			
	with ASC. Consistent with an essential role for NIrp3 inflammasomes in antifungal immunity,			
	Gross et al.showed that NIrp3-deficient mice are hypersusceptible to C. albicans infection.			
	Activation of the NLRP3 inflammasome in response to virus or to RNA was dependent upon			
	lysosomal maturation and reactive oxygen species production in human cells. The NLRP3			
	inflammasome senses obesity-associated danger signals and contributes to obesity-induced			
	inflammation and insulin resistance.			
	Synonyms: AGTAVPRL antibody AII/AVP antibody Angiotensin/vasopressin receptor AII/AVP			
	like antibody Angiotensin/vasopressin receptor AII/AVP-like antibody C1orf7			
	antibody Caterpiller protein 1.1 antibody CIAS 1 antibody CIAS1 antibody CLR1.1 antibody Colo			
	autoinflammatory syndrome 1 antibody Cold autoinflammatory syndrome 1 protein			
	antibody Cryopyrin antibody Familial cold autoinflammatory syndrome antibody FCAS			
	antibody FCU antibody LRR and PYD domains-containing protein 3 antibody Muckle-Wells			
	syndrome antibody/MWS antibody/NACHT antibody/NACHT LRR and PYD containing protein 3			

antibody|NALP 3 antibody|NALP3 antibody|NALP3_HUMAN antibody|NLRP3 antibody|PYPAF 1 antibody|PYPAF1 antibody|PYRIN containing APAF1 like protein 1 antibody|PYRIN-containing APAF1-like protein 1 antibody

Target Details					
UniProt:	Q96P20 Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Endopeptidase Activity Inflammasome				
Pathways:					
Application Details					
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.				
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).				
Restrictions: Handling	For Research Use only				
Format:	Lyophilized				
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μ g/mL.				
Concentration:	500 μg/mL				
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.				
Preservative:	Thimerosal (Merthiolate), Sodium azide				
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.				
Handling Advice:	Avoid repeated freezing and thawing.				
Storage:	4 °C/-20 °C				
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.				
	and thawing.				

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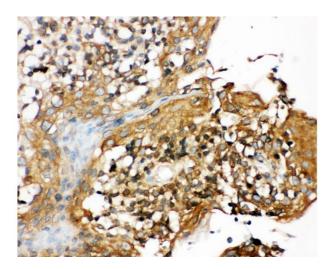
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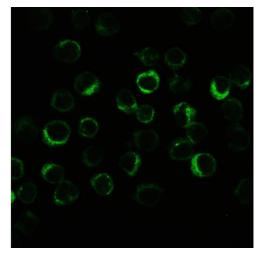
Images



Immunohistochemistry					
Image	1.	Anti-CIAS1/NALP3	antibody,	IHC(P)	IHC(P):
Human Tonsil Tissue					

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250KD -				
130KD -	_	-	_	-
100KD-		_		
70KD -				
55KD -				
35KD-				
25KD-				



Western Blotting

Image 2. Anti-CIAS1/NALP3 antibody, Western blotting Lane 1: HEP-2 Cell Lysate Lane 2: A549 Cell Lysate Lane 3: U87 Cell Lysate Lane 4: CEM Cell Lysate

Immunohistochemistry

Image 3. IHC analysis of CIAS1/NALP3 using anti-CIAS1/NALP3 antibody . CIAS1/NALP3 was detected in immunocytochemical section of THP-1 cell. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-CIAS1/NALP3 Antibody overnight at 4°C. DyLight®488 Conjugated Avidin was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1094) with DAB as the chromogen.

Please check the product details page for more images. Overall 4 images are available for ABIN3044250.

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