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Datasheet for ABIN7160827
anti-NLRP3 antibody (AA 30-102)

2 Images

Overview

Quantity:	100 µg
Target:	NLRP3
Binding Specificity:	AA 30-102
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NLRP3 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human NACHT, LRR and PYD domains-containing protein 3 protein (30-102AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	NLRP3
Alternative Name:	NLRP3 (NLRP3 Products)
Background:	Background: As the sensor component of the NLRP3 inflammasome, plays a crucial role in innate immunity and inflammation. In response to pathogens and other damage-associated

Target Details

signals, initiates the formation of the inflammasome polymeric complex, made of NLRP3, PYCARD and CASP1 (and possibly CASP4 and CASP5). Recruitment of proCASP1 to the inflammasome promotes its activation and CASP1-catalyzed IL1B and IL18 maturation and secretion in the extracellular milieu. Activation of NLRP3 inflammasome is also required for HMGB1 secretion (PubMed:22801494). The active cytokines and HMGB1 stimulate inflammatory responses. Inflammasomes can also induce pyroptosis, an inflammatory form of programmed cell death. Under resting conditions, NLRP3 is autoinhibited. NLRP3 activation stimuli include extracellular ATP, reactive oxygen species, K(+) efflux, crystals of monosodium urate or cholesterol, beta-amyloid fibers, environmental or industrial particles and nanoparticles, etc. However, it is unclear what constitutes the direct NLRP3 activator. Independently of inflammasome activation, regulates the differentiation of T helper 2 (Th2) cells and has a role in Th2 cell-dependent asthma and tumor growth (By similarity). During Th2 differentiation, required for optimal IRF4 binding to IL4 promoter and for IRF4-dependent IL4 transcription. Binds to the consensus DNA sequence 5'GRRGGNRGAG-3'. May also participate in the transcription of IL5, IL13, GATA3, CCR3, CCR4 and MAF (By similarity).

Aliases: AGTAVPRL antibody, AII/AVP antibody, Angiotensin/vasopressin receptor AII/AVP like antibody, Angiotensin/vasopressin receptor AII/AVP-like antibody, C1orf7 antibody, Caterpillar protein 1.1 antibody, CIAS 1 antibody, CIAS1 antibody, CLR1.1 antibody, Cold 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, NLR family pyrin domain containing 3 antibody, NLRP3 antibody, PYPAF 1 antibody, PYPAF1 antibody, PYRIN containing APAF1 like protein 1 antibody, PYRIN-containing APAF1-like protein 1 antibody

UniProt: [Q96P20](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#), [Positive Regulation of Endopeptidase Activity](#), [Inflammasome](#)

Application Details

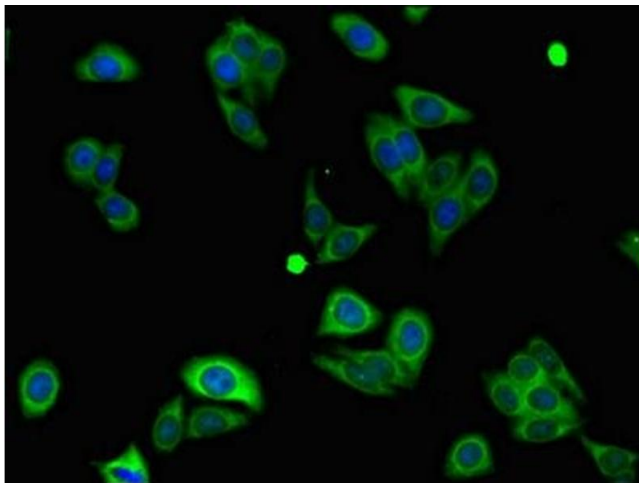
Application Notes: Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,

Restrictions: For Research Use only

Handling

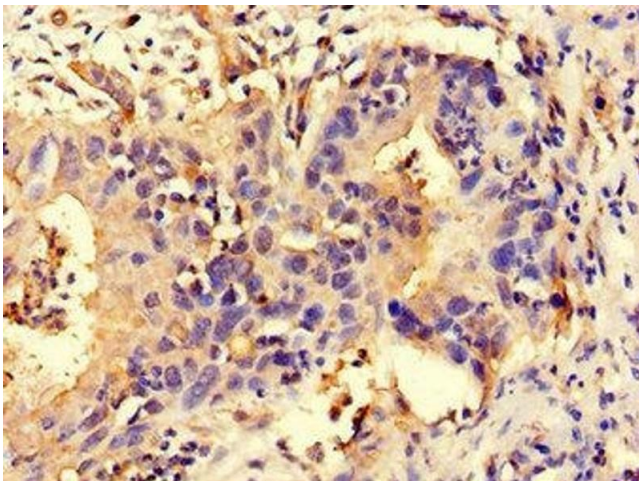
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunofluorescence

Image 1. Immunofluorescent analysis of HepG2 cells using ABIN7160827 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human bladder cancer using ABIN7160827 at dilution of 1:100