Datasheet for ABIN6144662

anti-NLRP3 antibody (C-Term)

5 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	NLRP3
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NLRP3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 900 to the C-terminus of human NLRP3 (NP_001120934.1).
Sequence:	CCWDLSTLLT SSQSLRKLSL GNNDLGDLGV MMFCEVLKQQ SCLLQNLGLS EMYFNYETKS ALETLQEEKP ELTVVFEPSW
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	NLRP3

Target Details

Alternative Name:	NLRP3 (NLRP3 Products)
Background:	This gene encodes a pyrin-like protein containing a pyrin domain, a nucleotide-binding site (NBS) domain, and a leucine-rich repeat (LRR) motif. This protein interacts with the apoptosis-associated speck-like protein PYCARD/ASC, which contains a caspase recruitment domain, and is a member of the NALP3 inflammasome complex. This complex functions as an upstream activator of NF-kappaB signaling, and it plays a role in the regulation of inflammation, the immune response, and apoptosis. Mutations in this gene are associated with familial cold autoinflammatory syndrome (FCAS), Muckle-Wells syndrome (MWS), chronic infantile neurological cutaneous and articular (CINCA) syndrome, and neonatal-onset multisystem inflammatory disease (NOMID). Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. Alternative 5' UTR structures are suggested by available data, however, insufficient evidence is available to determine if all of the represented 5' UTR splice patterns are biologically valid.,NLRP3,AGTAVPRL,AII,AVP,C1orf7,CIAS1,CLR1.1,FCAS,FCAS1,FCU,MWS,NALP3,PYPAF1,Cancer,Signal Transduction,Cell Biology & Developmental Biology,Apoptosis,Growth factor,TNF,Immunology & Inflammation,Cell Intrinsic Innate Immunity Signaling Pathway,Cardiovascular,NLRP3
Molecular Weight:	83 kDa/105 kDa/111 kDa/112 kDa/115 kDa/118 kDa
Gene ID:	114548
UniProt:	Q96P20
Pathways:	Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Endopeptidase Activity, Inflammasome

Application Details

Application Notes:	WB,1:1000 - 1:3000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

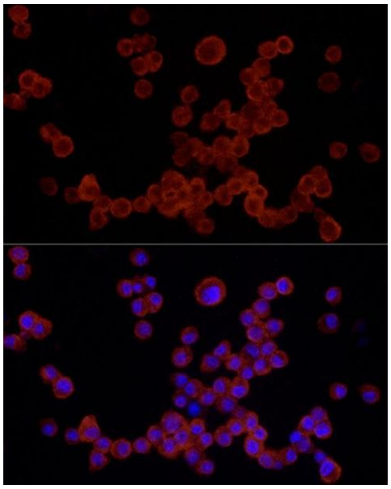
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Handling

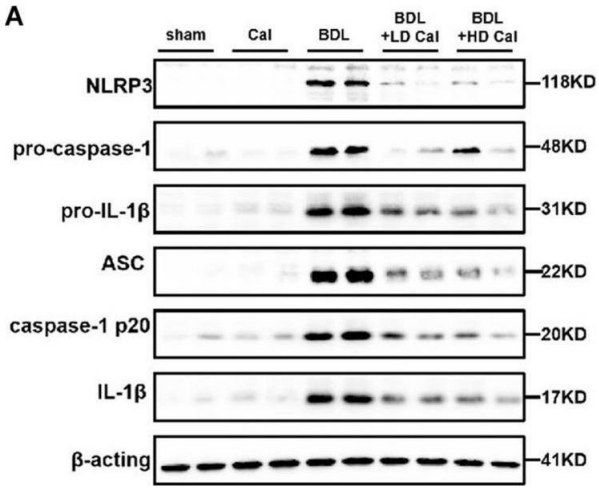
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Immunofluorescence

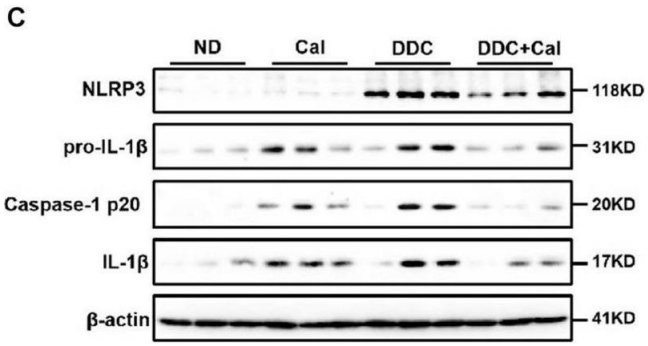
Image 1. Immunofluorescence analysis of R.7 cells using NLRP3 Rabbit pAb (ABIN6133625, ABIN6144662, ABIN6144664 and ABIN6216425) at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Calcipotriol supplement inhibits the NLRP3 inflammasome activation during DDC-induced and BDL-induced cholestatic liver injury. (A) Detection of protein levels of NLRP3, pro-caspase 1, pro-IL-1β,ASC, caspase-1 p20, and IL-1β in representative mouse liver samples of Sham, Cal, BDL, BDL + LD Cal, and BDL + HD Cal groups with Western blot analysis. β-Actin was used as the control. Gray scale analysis was performed to determine relative proportions of NLRP3, pro-caspase 1, pro-IL-1β,ASC, caspase-1 p20, and IL-1β. (B) IHC staining of representative mouse liver samples of Sham, Cal, BDL, BDL + LD Cal, and BDL + HD Cal groups for NLRP3. Scale bar = 100 μm. Image quantification of NLRP3 expression was performed. (C) Detection of protein levels of NLRP3, pro-IL-1β, caspase-1 p20, and IL-1β in representative mouse liver samples of ND, Cal, DDC and DDC + Ca groups with Western blot analysis. β-Actin was used as the control. Gray scale analysis was performed to determine relative proportions of NLRP3, pro-IL-1β, caspase-1 p20, and IL-1β. (D) IHC staining of representative mouse liver samples of ND, Cal, DDC and DDC + Ca groups for NLRP3. Scale bar = 100 μm. Image

quantification of NLRP3 expression was performed. All Bars represent mean ± SEM (*P < 0.05, **P < 0.01, ***P < 0.001, ****P < 0.0001). - figure provided by CiteAb. Source: PMID32296329



Western Blotting

Image 3. Calcipotriol supplement inhibits the NLRP3 inflammasome activation during DDC-induced and BDL-induced cholestatic liver injury. (A) Detection of protein levels of NLRP3, pro-caspase 1, pro-IL-1β,ASC, caspase-1 p20, and IL-1β in representative mouse liver samples of Sham, Cal, BDL, BDL + LD Cal, and BDL + HD Cal groups with Western blot analysis. β-Actin was used as the control. Gray scale analysis was performed to determine relative proportions of NLRP3, pro-caspase 1, pro-IL-1β,ASC, caspase-1 p20, and IL-1β. (B) IHC staining of representative mouse liver samples of Sham, Cal, BDL, BDL + LD Cal, and BDL + HD Cal groups for NLRP3. Scale bar = 100 μm. Image quantification of NLRP3 expression was performed. (C) Detection of protein levels of NLRP3, pro-IL-1β, caspase-1 p20, and IL-1β in representative mouse liver samples of ND, Cal, DDC and DDC + Ca groups with Western blot analysis. β-Actin was used as the control. Gray scale analysis was performed to determine relative proportions of NLRP3, pro-IL-1β, caspase-1 p20, and IL-1β. (D) IHC staining of representative mouse liver samples of ND, Cal, DDC and DDC + Ca groups for NLRP3. Scale bar = 100 μm. Image quantification of NLRP3 expression was performed. All Bars represent mean ± SEM (*P < 0.05, **P < 0.01, ***P < 0.001, ****P < 0.0001). - figure provided by CiteAb. Source: PMID32296329

Please check the product details page for more images. Overall 5 images are available for ABIN6144662.