Datasheet for ABIN7160817

anti-NLRP1 antibody (AA 1-146)

1 Image

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Overview

Quantity:	100 µg
Target:	NLRP1
Binding Specificity:	AA 1-146
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NLRP1 antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human NACHT, LRR and PYD domains-containing protein 1 protein (1-146AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	NLRP1
Alternative Name:	NLRP1 (NLRP1 Products)
Background:	Background: As the sensor component of the NLRP1 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 NLRP1, CASP1, and possibly PYCARD. Recruitement of proCASP1 to the inflammasome promotes its activation and CASP1-catalyzed IL1B and IL18 maturation and secretion in the extracellular milieu. Activation of NLRP1 inflammasome is also required for HMGB1 secretion. The active cytokines and HMGB1 stimulate inflammatory responses. Inflammasomes can also induce pyroptosis, an inflammatory form of programmed cell death (PubMed:22665479, PubMed:17418785). May be activated by muramyl dipeptide (MDP), a fragment of bacterial peptidoglycan, in a NOD2-dependent manner (PubMed:18511561). Contrary to its mouse ortholog, not activated by Bacillus anthracis lethal toxin (PubMed:19651869). It is unclear whether isoform 2 is involved in inflammasome formation. It is not cleaved within the FIIND domain, does not assemble into specks, nor promote IL1B release (PubMed:22665479). However, in an vitro cell-free system, it has been shown to be activated by MDP (PubMed:17349957). Binds ATP (PubMed:11113115, PubMed:15212762). Aliases: CARD 7 antibody, CARD7 antibody, Caspase recruitment domain protein 7 antibody, Caspase recruitment domain-containing protein 7 antibody, CLR17.1 antibody, Death effector filament forming Ced 4 like apoptosis protein antibody, Death effector filament-forming ced-4-like apoptosis protein antibody, DEFCAP antibody, DEFCAP L/S antibody, DKFZp586O1822 antibody, KIAA0926 antibody, LRR and PYD domains-containing protein 1 antibody, NAC alpha/beta/gamma/delta antibody, NAC antibody, NACHT antibody, NACHT leucine rich repeat and PYD containing 1 antibody, NACHT leucine rich repeat and PYD pyrin domain containing 1 antibody, NACHT leucine rich repeat and pyrin domain containing 1 antibody, NACHT LRR and PYD containing protein 1 antibody, NALP 1 antibody, NALP1 antibody, NALP1_HUMAN antibody, NLR family pyrin domain containing 1 antibody, NLRP 1 antibody, NLRP1 antibody, NLRP1 protein antibody, Nucleotide binding domain and caspase recruitment domain antibody, Nucleotide binding oligomerization domain leucine rich repeat and pyrin domain containing 1 antibody, Nucleotide-binding domain and caspase recruitment domain antibody, PP 1044 antibody, PP1044 antibody
UniProt:	Q9C000
Pathways:	Positive Regulation of Endopeptidase Activity, Inflammasome

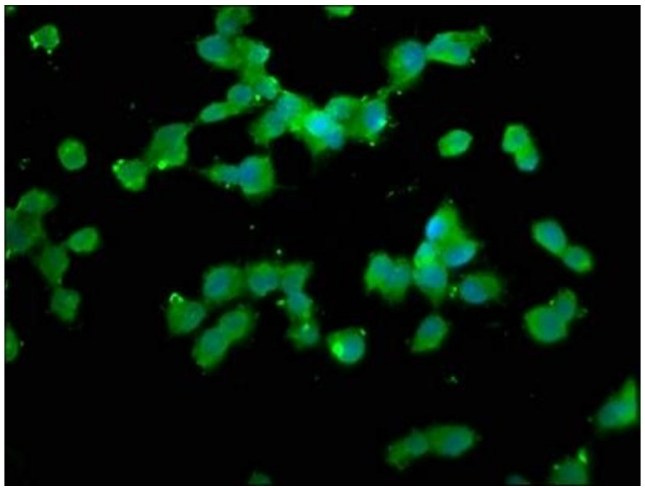
Application Details

Application Notes:	Recommended dilution: 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. Immunofluorescence staining of SH-SY5Y cells with ABIN7160817 at 1:133, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).

