ARG44063
anti-NLRP9 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal recognizes NLRP9
Tested Reactivity	Hu
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NLRP9
Species	Human
Immunogen	Human NLRP9 recombinant protein (Position: H118-H746).
Conjugation	Un-conjugated
Alternate Names	NLRP9; NLR Family Pyrin Domain Containing 9; PAN12; NOD6; CLR19.1; NALP9; Nucleotide-Binding Oligomerization Domain, Leucine Rich Repeat And Pyrin Domain Containing 9; Nucleotide-Binding Oligomerization Domain Protein 6; NACHT, Leucine Rich Repeat And PYD Containing 9; NACHT, LRR And PYD Domains-Containing Protein 9; PYRIN And NACHT-Containing Protein 12; NACHT, LRR And PYD Containing Protein 9

Application Instructions

Application table

Application	Dilution
WB	0.25 - 0.5 µg/ml

Application Note: The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

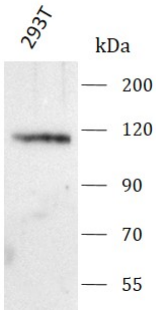
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	NLRP9
Gene Full Name	NLR Family Pyrin Domain Containing 9
Background	The protein encoded by this gene belongs to the NALP protein family. Members of the NALP protein family typically contain a NACHT domain, a NACHT-associated domain (NAD), a C-terminal leucine-rich repeat (LRR) region, and an N-terminal pyrin domain (PYD). This protein may play a regulatory role in the innate immune system as similar family members belong to the signal-induced multiprotein complex, the inflammasome, that activates the pro-inflammatory caspases, caspase-1 and caspase-5.
Function	As the sensor component of the NLRP9 inflammasome, plays a crucial role in innate immunity and inflammation. In response to pathogens, including rotavirus, initiates the formation of the inflammasome polymeric complex, made of NLRP9, PYCARD and CASP1. Recruitment of proCASP1 to the inflammasome promotes its activation and CASP1-catalyzed IL1B and IL18 maturation and release in the extracellular milieu. The active cytokines stimulate inflammatory responses. Inflammasomes can also induce pyroptosis, an inflammatory form of programmed cell death. NLRP9 inflammasome activation may be initiated by DHX9 interaction with viral double-stranded RNA (dsRNA), preferentially to short dsRNA segments.
Calculated Mw	113 kDa
Cellular Localization	Cytoplasm, Inflammasome

Images



ARG44063 anti-NLRP9 antibody WB image

Western blot: 293T stained with ARG44063 anti-NLRP9 antibody at 0.5 µg/mL dilution.