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NLRP9 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58536

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q7RTR0
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	113312
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NLRP9
Epitope Specificity	701-800/991
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
SIMILARITY	Belongs to the NLRP family. Contains 1 DAPIN domain. Contains 6 LRR (leucine-rich) repeats. Contains 1 NACHT domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Jul 2008].

Additional Information

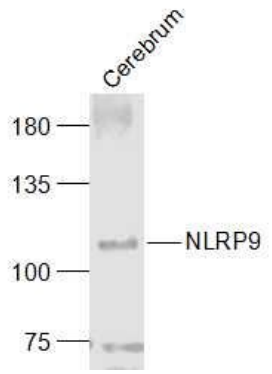
Gene ID	338321
Other Names	NACHT, LRR and PYD domains-containing protein 9, Nucleotide-binding oligomerization domain protein 6, PYRIN and NACHT-containing protein 12, NLRP9, NALP9, NOD6, PAN12
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NLRP9
Synonyms	NALP9, NOD6, PAN12
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.
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q66X22}. Inflammasome
Tissue Location	Expressed in ileum intestinal epithelial cells. Not detected in peripheral blood mononuclear cells (PubMed:28636595) Expressed in cerebral endothelial cells and, at much lower levels, in brain pericytes (PubMed:28432035).

Images



Sample:
Cerebrum (Mouse) Lysate at 40 ug
Primary: Anti-NLRP9 (AP58536) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 109 kD
Observed band size: 109 kD