

NALP4 Antibody

Catalog # ASC11193

Product Information

Application	WB, E
Primary Accession	Q96MN2
Other Accession	AAL35293 , 17064172
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	113415
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	NALP4 antibody can be used for detection of NALP4 by Western blot at 1 μ g/mL.

Additional Information

Gene ID	147945
Other Names	NACHT, LRR and PYD domains-containing protein 4, Cancer/testis antigen 58, CT58, PAAD and NACHT-containing protein 2, PAN2, PYRIN and NACHT-containing protein 2, PYRIN-containing APAF1-like protein 4, PYPAF4, Ribonuclease inhibitor 2, NLRP4, NALP4, PAN2, PYPAF4, RNH2
Target/Specificity	NLRP4;
Reconstitution & Storage	NALP4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	NALP4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NLRP4 (HGNC:22943)
Function	May be involved in inflammation and recognition of cytosolic pathogen-associated molecular patterns (PAMPs) not intercepted by membrane-bound receptors. Acts as a negative regulator of the type I interferon signaling pathway by serving as an adapter to promote DTX4-mediated ubiquitination of activated TBK1, and its subsequent degradation. Suppresses NF-kappaB induction by the cytokines TNFA and IL1B, suggesting that it operates at a point of convergence in these two cytokine signaling pathways.

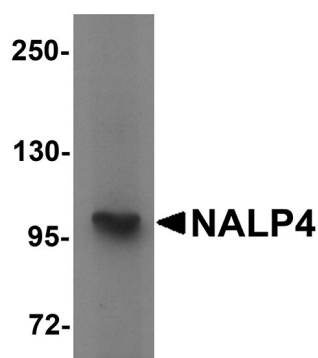
Background

NALP4 Antibody: NALP proteins include the apoptosis regulator APAF1 (apoptotic protease activating factor 1) and mammalian NOD-LRR proteins and are thought to be involved in inflammation and reproduction. NALP4, also known as PYRIN-containing APAF1-like protein 4, has a C-terminal leucine-rich repeat (LRR) region, an N-terminal Pyrin domain (PYD) followed by a NACHT domain, and a NACHT-associated domain. In transfected 293 cells, NALP4 suppressed NF- κ B induction by TNF- α and IL-1 β , suggesting NALP4 operates at a point of convergence in these two signaling pathways. NALP4 also suppressed NF- κ B induction resulting from overexpression of several adapter proteins and protein kinases involved in these pathways, including TRAF2, TRAF6, RIP, and IRAK2, as well as the IKK-alpha and IKK-beta, suggesting that NALP4 is critical in modulating NF- κ B activity.

References

Tschopp J, Martinon F, and Burns K. NALPs: a novel protein family involved in inflammation. *Nat. Rev. Mol. Cell Biol.*2003; 4:95-104.
Tian X, Pascal G, and Monget P. Evolution and functional divergence of NLRP genes in mammalian reproductive system. *BMC Evol. Biol.*2009; 9:202.
Fiortino L, Stehlik C, Oliveira V, et al. A novel PAAD-containing protein that modulates NF-kappa B induction by cytokines tumor necrosis factor-alpha and interleukin-1beta. *J. Biol. Chem.*2002; 277:35333-40.

Images



Western blot analysis of NALP4 in K562 cell lysate with NALP4 antibody at 1 μ g/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.