

NALP7 Antibody
Catalog # ASC11196**Specification**

NALP7 Antibody - Product Information

Application	IHC, IF, WB
Primary Accession	Q8WX94
Other Accession	NP_631915 , 46049100
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	NALP7 antibody can be used for detection of NALP7 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL. For immunofluorescence start at 20 µg/mL.

NALP7 Antibody - Additional Information

Gene ID	199713
Target/Specificity	
NLRP7;	

Reconstitution & Storage

NALP7 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

NALP7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

NALP7 Antibody - Protein Information

Name NLRP7

Synonyms NALP7, NOD12, PYPAF3

Function

Inhibits CASP1/caspase-1-dependent IL1B secretion.

Tissue Location

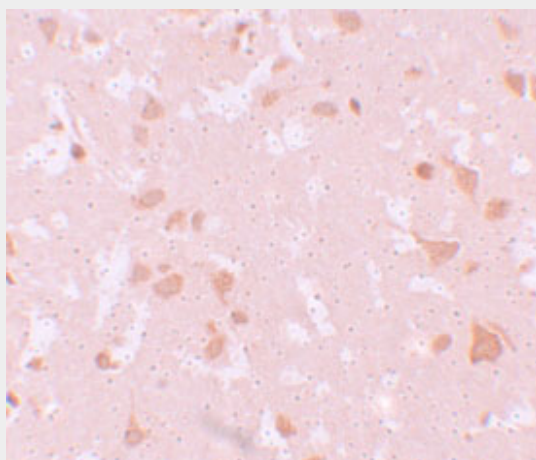
Expressed in numerous tissues including uterus and ovary, with low levels in heart and brain. Not detected in skeletal muscle.

NALP7 Antibody - Protocols

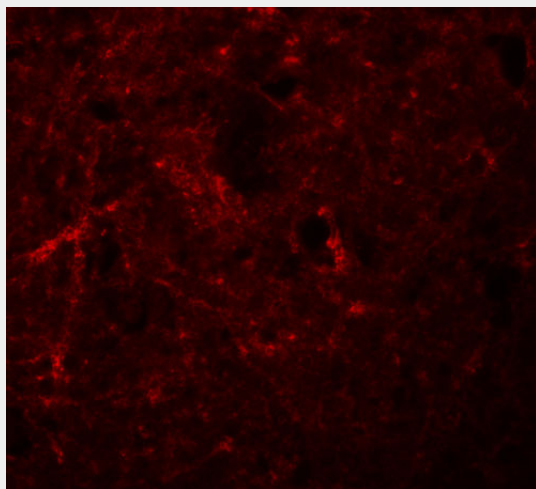
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

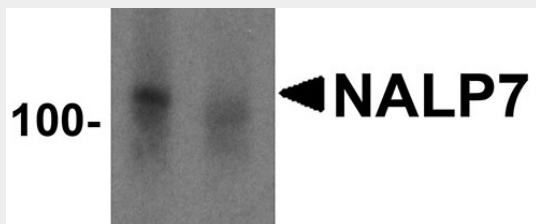
NALP7 Antibody - Images



Immunohistochemistry of NALP7 in human brain tissue with NALP7 antibody at 10 µg/mL.



Immunofluorescence of NALP7 in human brain tissue with NALP7 antibody at 20 µg/mL.



Western blot analysis of NALP7 in K562 cell lysate with NALP7 antibody at 2 µg/mL in (A) the absence and (B) the presence of blocking peptide.

NALP7 Antibody - Background

NALP7 Antibody: NOD proteins include the apoptosis regulator APAF1 (apoptotic protease activating factor 1) and mammalian NOD-LRR proteins. NALP7, also known as PYPAF3, a member of the related PYRIN-containing APAF1-like proteins (PYPAFs/NALPs) is thought to play a crucial role in cell proliferation. NALP7 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. It is expressed in numerous tissues including uterus and ovary, with low levels in heart and brain. NALP7 inhibits caspase-1-dependent interleukin-1 β secretion and is a feedback regulator of interleukin-1 β secretion. Defects in the NALP7 gene are known to cause the formation of a hydatidiform mole (HYDM) and reduce the growth of carcinoma cell lines.

NALP7 Antibody - 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.

Kinoshita T, Wang Y, Hasegawa M, et al. PYPAF3, a PYRIN-containing APAF-1-like protein, is a feedback regulator of caspase-1-dependent interleukin-1 β secretion. *J. Biol. Chem.* 2005; 280:21720-5.

Okada K, Hirota E, Mizutani Y, et al. Oncogenic role of NALP7 in testicular seminomas. *Cancer Sci.* 2004; 95: 949-54.

Murdoch S, Djuric U, Mazhar B, et al. Mutations in NALP7 cause recurrent hydatidiform moles and reproductive wastage in humans. *Nat. Genet.* 2006; 38: 300-2.