

NALP7 Antibody

Catalog # ASC11196

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q8WX94
Other Accession	NP_631915 , 46049100
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	111807
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	NALP7 antibody can be used for detection of NALP7 by Western blot at 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 10 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	199713
Other Names	NACHT, LRR and PYD domains-containing protein 7, Nucleotide-binding oligomerization domain protein 12, PYRIN-containing APAF1-like protein 3, NLRP7, NALP7, NOD12, PYPAF3
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.

Protein Information

Name	NLRP7 {ECO:0000303 PubMed:20547486, ECO:0000312 HGNC:HGNC:22947}
Function	Component of cytoplasmic lattices, which consist in fibrous structures found in the cytoplasm of oocytes and preimplantation embryos (PubMed: 41118754). Cytoplasmic lattices are required to store maternal proteins critical for embryonic development, such as ribosomal proteins, cytoskeletal tubulins and proteins controlling epigenetic reprogramming of the preimplantation embryo, in a poised but restrained state, regulating their availability for early embryonic development (PubMed: 41118754). Inhibits

CASP1/caspase-1-dependent IL1B secretion (PubMed:[15817483](#)).

Cellular Location

Cytoplasm, cell cortex. Note=Localized at the oocyte cortex

Tissue Location

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

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.

References

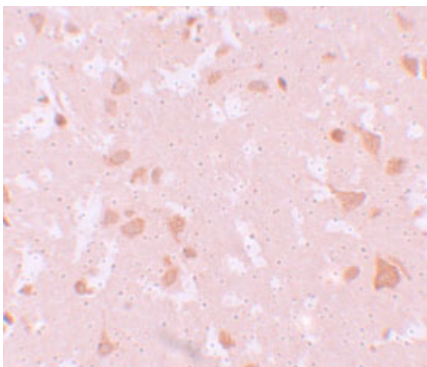
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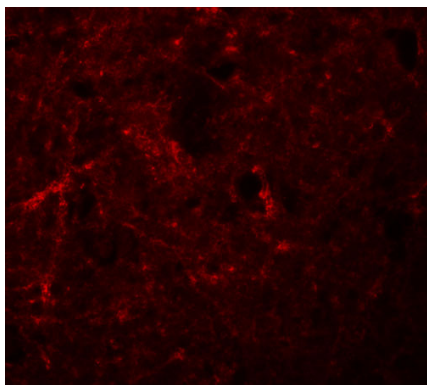
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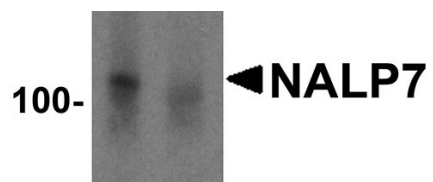
Images



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



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



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

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