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Goat anti-NLRP5 (C-terminus) Antibody
Peptide-affinity purified goat antibody
Catalog # AF4404a

Specification

Goat anti-NLRP5 (C-terminus) Antibody - Product Information

Application	**WB, Pep-ELISA**
Primary Accession	P59047
Other Accession	NP_703148.4
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**134342**

Goat anti-NLRP5 (C-terminus) Antibody - Additional Information

Gene ID 126206

Other Names
NLRP5; NLR family, pyrin domain containing 5; MATER; NALP5; PAN11; PYPAF8; CLR19.8

Dilution
WB~~1:1000
Pep-ELISA~~N/A

Format
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat anti-NLRP5 (C-terminus) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat anti-NLRP5 (C-terminus) Antibody - Protein Information

Name NLRP5

Synonyms MATER {ECO:0000303|PubMed:19542546}, NAL

Function
Component of the subcortical maternal complex (SCMC), a multiprotein complex that plays a key role in early embryonic development. The SCMC complex is a structural constituent of cytoplasmic lattices, which consist in fibrous structures found in the cytoplasm of oocytes and preimplantation

embryos. They are required to store maternal proteins critical for embryonic development, such as proteins that control epigenetic reprogramming of the preimplantation embryo, and prevent their degradation or activation. Required for the localization of cortical granules to the cortex of oocytes, via association with the cortical actin scaffold. Required for cortical actin clearance prior to oocyte exocytosis and prevention of polyspermy. Involved in regulating post-fertilization Ca(2+) release and endoplasmic reticulum storage (ER) storage via regulation of cellular localization. May be involved in the localization of mitochondria to the cytoplasm and perinuclear region in oocytes and early stage embryos, independent of its role in CPL formation.

Cellular Location
Cytoplasm. Cytoplasmic vesicle, secretory vesicle, Cortical granule. Mitochondrion. Nucleus, nucleolus. Golgi apparatus. Note=Core component of cytoplasmic lattices in oocytes (PubMed:37922900). In the subcortical cytoplasm of early embryos from the 1-cell to the blastocyst stages (By similarity). From the 2-cell stage, still detected in the subcortex, but excluded from cell-cell contact regions (By similarity). Expression largely disappears in blastocysts (By similarity). Located in mitochondria and nucleoli in primary follicle oocytes (By similarity) {ECO:0000250|UniProtKB:Q9R1M5, ECO:0000269|PubMed:37922900}

Tissue Location
Expressed in cumulus cells (at protein level) (PubMed:19542546). Highly abundant in oocytes and early embryos, however poorly expressed in somatic tissues such as the liver and spinal cord (PubMed:11925379, PubMed:30877238)

Goat anti-NLRP5 (C-terminus) 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 Cytomety
- Cell Culture

Goat anti-NLRP5 (C-terminus) Antibody - Images