

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

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

Application	<b>WB, Pep-ELISA</b>
Primary Accession	<a href="#">P59047</a>
Other Accession	<a href="#">NP_703148.4</a>
Reactivity	<b>Human</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>134342</b>

**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**

As a member of the subcortical maternal complex (SCMC), plays an essential role for zygotes to progress beyond the first embryonic cell divisions via regulation of actin dynamics (By similarity). Required for the formation of F-actin cytoplasmic lattices (CPL) in oocytes, which in turn are

responsible for symmetric division of zygotes via the regulation of mitotic spindle formation and positioning (By similarity). Required for the localization of cortical granules to the cortex of oocytes, via association with the cortical actin scaffold (By similarity). Required for cortical actin clearance prior to oocyte exocytosis (By similarity). Involved in regulating post-fertilization  $\text{Ca}^{2+}$  release and endoplasmic reticulum (ER) storage via regulation of ER localization (By similarity). 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 (By similarity).

**Cellular Location**

Cytoplasmic vesicle, secretory vesicle, Cortical granule. Mitochondrion. Nucleus, nucleolus. Cytoplasm. Golgi apparatus

**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 Cytometry](#)
- [Cell Culture](#)

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