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NANOS2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2730b

Specification

NANOS2 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P60321
Other Accession	P60322
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**108-137**

NANOS2 Antibody (C-term) - Additional Information

Gene ID 339345

Other Names
Nanos homolog 2, NOS-2, NANOS2, NOS2

Target/Specificity
This NANOS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 108-137 amino acids from the C-terminal region of human NANOS2.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Precautions
NANOS2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

NANOS2 Antibody (C-term) - Protein Information

Name NANOS2

Synonyms NOS2

Function Plays a key role in the sexual differentiation of germ cells by promoting the male fate but suppressing the female fate. Represses the female fate pathways by suppressing meiosis, which in turn results in the promotion of the male fate. Maintains the suppression of meiosis by preventing STRA8 expression, which is required for premeiotic DNA replication, after CYP26B1 is decreased. Regulates the localization of the CCR4-NOT deadenylation complex to P-bodies and plays a role in recruiting the complex to trigger the degradation of mRNAs involved in meiosis. Required for the maintenance of the spermatogonial stem cell population. Not essential for the assembly of P-bodies but is required for the maintenance of their normal state (By similarity).

Cellular Location
Cytoplasm. Cytoplasm, P-body. Cytoplasm, perinuclear region. Note=Localizes at P-bodies during gonocyte development (By similarity). More abundant in perinuclear region of the cytoplasm of the germ cells of the adult testis

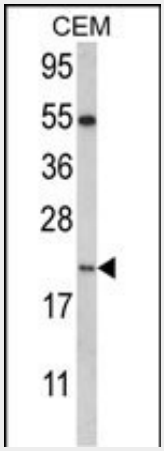
Tissue Location
Testis and ovary. Expression found in several spermatogenic stages: in cells on the periphery of the tubules which could correspond to spermatogonia, in spermatocytes and in round spermatids (at protein level).

NANOS2 Antibody (C-term) - 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

NANOS2 Antibody (C-term) - Images



Western blot analysis of NANOS2 Antibody (C-term) (Cat. #AP2730b) in CEM cell line lysates (35ug/lane). NANOS2 (arrow) was detected using the purified Pab.

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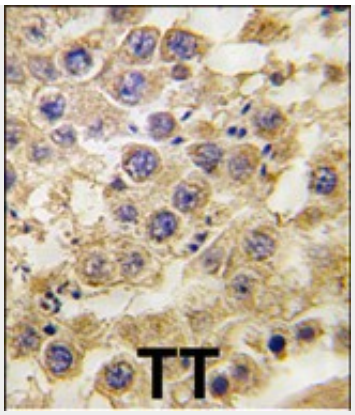

Formalin-fixed and paraffin-embedded human testis tissue reacted with NANOS2 antibody (C-term)(Cat.#AP2730b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

NANOS2 Antibody (C-term) - Background

NANOS2 is required to support proliferation and self-renewal of proximal germ cells in males only. It probably regulates translation of specific mRNAs by associating with the 3'-UTR of mRNA targets. It is essential for spermatogonia formation.

NANOS2 Antibody (C-term) - References

Chang,H.R., Arch. Dermatol. Res. 295 (7), 293-296 (2003)
Tsuda,M., Science 301 (5637), 1239-1241 (2003)
Jaruzelska,J., Dev. Genes Evol. 213 (3), 120-126 (2003)