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NANOS2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP18474c

Specification

NANOS2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P60321

NANOS2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 339345

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NANOS2 Antibody (Center) Blocking Peptide - 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 (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

NANOS2 Antibody (Center) Blocking Peptide - Images

NANOS2 Antibody (Center) Blocking Peptide - Background

NANOS2 is required to support proliferation and self-renewal of proximal germ cells in males only. Probably regulates translation of specific mRNAs by associating with the 3'-UTR of mRNA targets. Essential for spermatogonia formation (By similarity).

NANOS2 Antibody (Center) Blocking Peptide - References

Kusz, K.M., et al. Mol. Hum. Reprod. 15(3):165-171(2009)Chang, H.R., et al. Arch. Dermatol. Res. 295(7):293-296(2003)Tsuda, M., et al. Science 301(5637):1239-1241(2003)Jaruzelska, J., et al. Dev. Genes Evol. 213(3):120-126(2003)