SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-NANOS2 antibody

Catalog Number: SL6314R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	NANOS2
Immunogen:	KLH conjugated synthetic peptide derived from human NANOS2: 45-138/138
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human)
Predicted MW.:	15kDa
Subcellular Location:	cytoplasmic
Background:	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. **Function:** Plays a key role in the sexual differentiation of germcells by promoting the male fate but suppressing the female fate.Represses the female fate pathways by suppressing meiosis, which inturn results in the promotion of the male fate. Maintains thesuppression of meiosis by preventing STRA8 expression, which isrequired for premeiotic DNA replication, after CYP26B1 isdecreased. Regulates the localization of the CCR4-NOT deadenylationcomplex to P-bodies and plays a role in recruiting the complex totrigger the degradation of mRNAs involved in meiosis. Required forthe maintenance of the spermatogonial stem cell population. Notessential for the assembly of P-bodies but is required for themaintenance of their normal state (By similarity). **Subunit:** Interacts with CNOT1, CNOT3, CNOT6L, CNOT7 and CNOT9

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	(Bysimilarity). **Subcellular Location:** Cytoplasm. Cytoplasm, P-body (Bysimilarity). Cytoplasm, perinuclear region. Note=Localizes atP-bodies during gonocyte development (By similarity). More abundantin perinuclear region of the cytoplasm of the germ cells of theadult testis. **Tissue Specificity:** Testis and ovary. Expression found in severalspermatogenic stages: in cells on the periphery of the tubuleswhich could correspond to spermatogonia, in spermatocytes and inround spermatids (at protein level). **Similarity:** Belongs to the nanos family. Contains 1 nanos-type zinc finger. **Database links:** UniProtKB/Swiss-Prot: P60321.1

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