SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-FOXD3 antibody

Catalog Number: SL11518R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	FOXD3
Immunogen:	KLH conjugated synthetic peptide derived from human FOXD3: 151-230/478
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:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:50-200 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Chicken,Dog,Cow,Rabbit)
Predicted MW.:	48kDa
Subcellular Location:	The nucleus
Background:	Embryonic stem cells require the forkhead transcriptional regulator FoxD3 for survival. Following gastrulation, FoxD3 generally gets downregulated, except in the neural crest. A variety of growth factors induce FoxD3 expression, including FGF8 and SNAIL, maintaining the effected cells in an undifferentiated state. Thus defects in FoxD3 induction may cause premature differentiation and/or migration-asociated birth defects. **Function:** Binds to the consensus sequence 5'-A[AT]T[AG]TTTGTTT-3' and acts as a transcriptional repressor. Also acts as a transcriptional activator. Promotes development of neural crest cells from neural tube progenitors. Restricts neural progenitor cells to the neural crest lineage while suppressing interneuron differentiation. Required for maintenance of pluripotent cells in the pre-implantation and peri-implantation stages of embryogenesis.

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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	Subcellular Location: Nucleus. **Tissue Specificity:** Expressed in chronic myeloid leukemia, Jurkat T-cell leukemia and teratocarcinoma cell lines, but not in any other cell lines or normal tissues examined. DISEASE: Defects in FOXD3 are associated with susceptibility to autoimmune disease type 1 (AIS1) [MIM:607836]. AIS1 is a disorder characterized by the association of vitiligo with autoimmune thyroiditis (Hashimoto thyroiditis). **Similarity:** Contains 1 fork-head DNA-binding domain. **Database links:** **Entrez Gene:** 27022 Human **Entrez Gene:** 15221 Mouse Omim: 611539 Human **SwissProt:** Q9UJU5 Human **SwissProt:** Q61060 Mouse **Unigene:** 546573 Human **Unigene:** 4758 Mouse

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