10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FOXD3 Rabbit pAb

Catalog # AP100248

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UJU5
Other Accession	Q9UJU5
Reactivity	Rat, Human, Mouse
Predicted	Rabbit, Chicken, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47630
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FOXD3
Epitope Specificity	151-230/478
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 fork-head DNA-binding domain.
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).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	27022
Other Names	AIS1; Genesis; HFH2; VAMAS2; CWH3; FOXD3_HUMAN; FOXD3; HNF3/FH transcription factor genesis; FOXD3_MOUSE; Hepatocyte nuclear factor 3 forkhead homolog 2 (HFH-2); forkhead box D3
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:50-200,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	FOXD3
Synonyms	HFH2
Function	Binds to the consensus sequence 5'-A[AT]T[AG]TTTGTTT-3' and acts as a transcriptional repressor (PubMed:11891324). Also acts as a transcriptional activator (PubMed:11891324). Negatively regulates transcription of transcriptional repressor RHIT/ZNF205 (PubMed:22306510). Promotes development of neural crest cells from neural tube progenitors (PubMed:11891324). Restricts neural progenitor cells to the neural crest lineage while suppressing interneuron differentiation (PubMed:11891324). Required for maintenance of pluripotent cells in the pre-implantation and peri-implantation stages of embryogenesis (PubMed:11891324).
Cellular Location	Nucleus.
Tissue Location	Expressed in chronic myeloid leukemia, Jurkat T- cell leukemia and teratocarcinoma cell lines, but not in any other cell lines or normal tissues examined.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.