
Product Name: FOXD3 Mouse Monoclonal Antibody**Catalog #: AMM80927**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ELISA
Reactivity	Human,Mouse,Monkey
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000
Molecular Weight	50kDa

Antigen Information

Gene Name	FOXD3
Alternative Names	AIS1; HFH2; Genesis; FOXD3
Gene ID	27022.0
SwissProt ID	Q9UJU5
Immunogen	Purified recombinant fragment of human FOXD3 expressed in E. Coli.

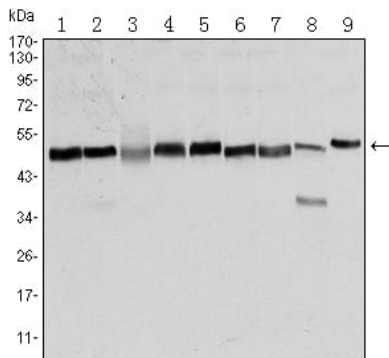
Background

FoxD3 is a member of the Forkhead Box family and is characterized by a winged-helix DNA-binding structure and the important role it plays in embryonic development. This transcriptional regulator is required for the maintenance of pluripotency in the pre-implantation and peri-implantation stages of mouse embryonic development and is also required for trophoblast

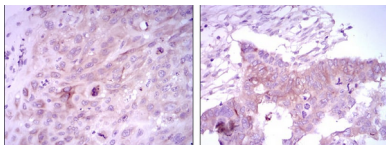
formation. FoxD3 is required for the maintenance of the mammalian neural crest; FoxD3(-/-) mouse embryos fail around the time of implantation with loss of neural crest-derived structures. FoxD3 also forms a regulatory network with Oct-4 and NANOG to maintain the pluripotency of ES cells. Promotes development 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. 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.

Research Area

Image Data



Western blot analysis using FOXD3 mouse mAb against NTERA-2 (1), HUVE-12 (2), HEK293 (3), Hela (4), Jurkat (5), K562 (6), RAW264.7 (7), NIH/3T3 (8), and COS7 (9) cell lysate.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissues (left) and ovarian cancer tissues (right) using FOXD3 mouse mAb with DAB staining.