

Product datasheet for **AM06554SU-N**

FOXD3 Mouse Monoclonal Antibody [Clone ID: 5G9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5G9
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA: 1/10000. Western Blot: 1/500 - 1/2000. Immunohistochemistry on Paraffin Sections: 1/200 - 1/1000.
Reactivity:	Human, Monkey, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of Human FOXD3 expressed in E. Coli.
Specificity:	Recognizes FOXD3 / HFH2
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	50 kDa
Gene Name:	forkhead box D3
Database Link:	Entrez Gene 27022 Human Q9UJU5



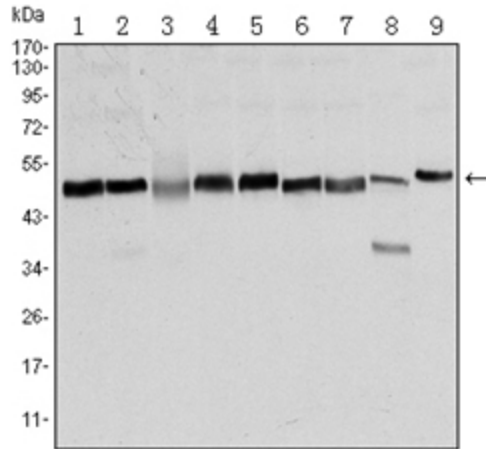
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Background:

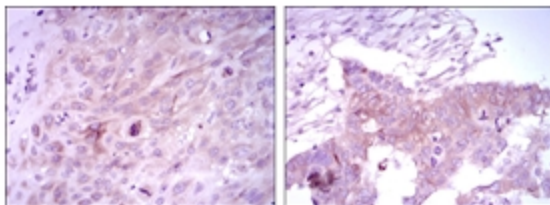
FoxD3 is a member of the Forkhead Box family and is characterized by a winged-helix DNA-binding structure and the important role it plays in embryonic development. This transcriptional regulator is required for the maintenance of pluripotency in the pre-implantation and peri-implantation stages of mouse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

Synonyms:

Forkhead box protein D3

Product images:


Western blot analysis using FOXD3 antibody Cat.-No AM06554SU-N b 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 lung cancer tissues (left) and ovarian cancer tissues (right) using FOXD3 antibody Cat.-No AM06554SU-N with DAB staining.