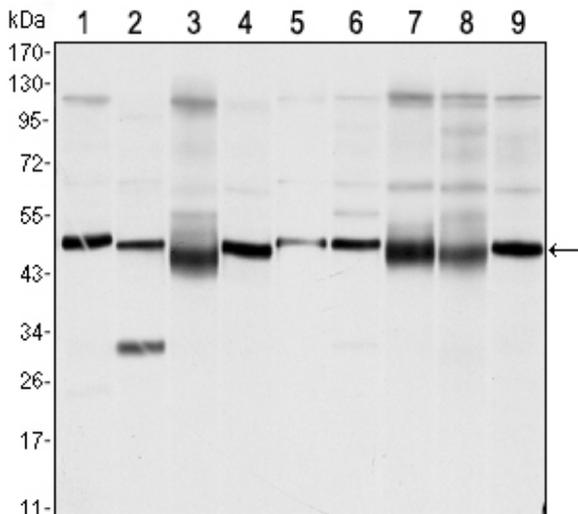




**Category:** Monoclonal Antibodies  
**Product Name:** Mouse Monoclonal Antibody to FOXD3

**Catalog Number:** MAB-606030128



Lot#:   
Clone#: 5G9  
Host and isotype: Mouse IgG1  
Size: 0.1ml  
MW: 48kDa  
Aliases: AIS1; HFH2; Genesis;  
FOXD3  
Entrez Gene: 27022  
Species reactivity: Human;  
Mouse; Monkey

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

**Description** 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 .

**Immunogen** Purified recombinant fragment of human FOXD3 expressed in E. Coli.

**Application** Western Blotting: 1/500 - 1/2000.  
ELISA: Propose dilution 1/10000.  
Not yet tested in other applications.  
Determining optimal working dilutions by titration test.

**Formulation** Ascitic fluid containing 0.03% sodium azide.

**Storage** Store at 4°C, for long term storage, store at -20°C.

**Related product**

**References** 1. Blood. 1993 Jun 1;81(11):2854-9.  
2. Am J Hum Genet. 2001 Mar;68(3):627-41.

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