FOXD3 (5G9) Antibody

Subcategory: Mouse Monoclonal Antibody
Cat. No.: 253087
Unit: 0.1 ml

Description:
FoxD3 (Forkhead box protein D3) is a transcriptional regulator, a member of the Forkhead Box family. It is characterized by a winged-helix DNA-binding structure and the important role it plays in embryonic development. FoxD3 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. FoxD3 is expressed in chronic myeloid leukemia, Jurkat T-cell leukemia and teratocarcinoma cell lines, but not in any other cell lines or normal tissues examined.

Isotype: Mouse IgG1
Applications: WB
Species Reactivity: H
Format: Each vial contains 0.1 ml ascitic fluid with 0.03% sodium azide.
Alternate Names: Forkhead box protein D3; HNF3/FH transcription factor genesis; HFH2; FOXD3
Accession No.: Q9UJU5

Antigen: Purified recombinant fragment of human FOXD3 expressed in E. coli.
Application Notes: WB: 1:500-1:2000;

Storage: Store at 4°C for short term use only. Store at -20°C for storage over 1 month. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.