10320 Camino Santa Fe, Suite G
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FOXD3 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1480a

Specification

FOXD3 Antibody - Product Information

Application	**WB**
Primary Accession	Q9UJU5
Reactivity	**Human, Mouse, Monkey**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**48kDa KDa**

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.

Formulation
Ascitic fluid containing 0.03% sodium azide.

FOXD3 Antibody - Additional Information

Gene ID 27022

Other Names
Forkhead box protein D3, HNF3/FH transcription factor genesis, FOXD3, HFH2

Dilution
WB~~1/500 - 1/2000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
FOXD3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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FOXD3 Antibody - 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.

FOXD3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FOXD3 Antibody - Images

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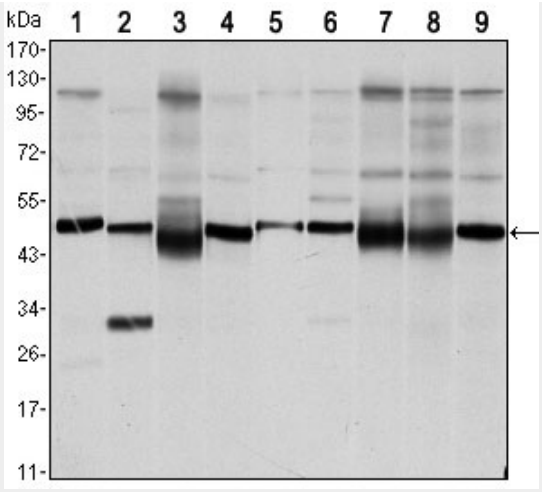


Figure 1: Western blot analysis using FOXD3 mouse mAb against NTERA-1 (1)HUVE-12 (2), HEK293 (3), Hela (4), Jurkat (5), NIH/3T3 (6), K562 (7), RAW264.7 (8) and COS7 (9) cell lysate.

FOXD3 Antibody - References

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