**Product Name: FoxD3 Rabbit Polyclonal Antibody**
**Catalog #: APRab11080**
For research use only.

## Summary

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|---|---|
| **Description** | Rabbit polyclonal Antibody |
| **Host** | Rabbit |
| **Application** | WB,IHC,ICC/IF,ELISA |
| **Reactivity** | Human,Mouse |
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | IgG |
| **Clonality** | Polyclonal |
| **Form** | Liquid |
| **Concentration** | 1mg/ml |
| **Storage** | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| **Shipping** | Ice bags |
| **Buffer** | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| **Purification** | Affinity purification |

## Application

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|---|---|
| **Dilution Ratio** | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:10000 |
| **Molecular Weight** | 48kDa |

## Antigen Information

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|---|---|
| **Gene Name** | FOXD3 |
| **Alternative Names** | FOXD3; HFH2; Forkhead box protein D3; HNF3/FH transcription factor genesis |
| **Gene ID** | 27022.0 |
| **SwissProt ID** | Q9UJU5 |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human FOXD3. AA range:211-260 |

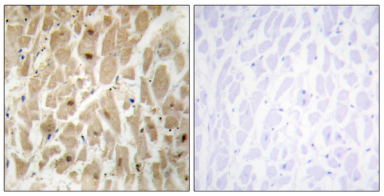
## Background

This gene belongs to the forkhead family of transcription factors which is characterized by a distinct forkhead domain.

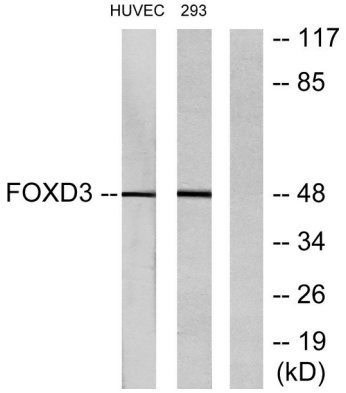
Mutations in this gene cause autoimmune susceptibility 1. [provided by RefSeq, Nov 2008],disease:Defects in FOXD3 are associated with susceptibility to autoimmune disease type 1 (AIS1) [MIM:607836]; also called vitiligo-associated multiple autoimmune disease susceptibility type 2 (VAMAS2). Generalized vitiligo is an acquired disorder in which white patches of skin and hair result from autoimmune loss of melanocytes, often associated with other autoimmune disorders. Most cases occur in a sporadic family pattern suggesting polygenic, multifactorial inheritance. However, a striking family in which a somewhat unusual vitiligo phenotype has been described, characterized by progressively coalescent diffuse depigmentation and relatively early disease onset, segregated as an apparent autosomal dominant with incomplete penetrance.,function:Binds to the consensus sequence 5'-A[AT]T[AG]TTTGTTT-3' and acts as a transcriptional repressor. Also acts as a transcriptional activator. 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.,similarity:Contains 1 fork-head DNA-binding domain.,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

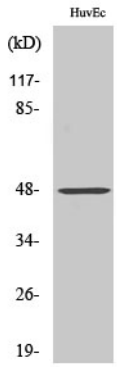
## Image Data



Immunohistochemistry analysis of paraffin-embedded human heart tissue, using FOXD3 Antibody. The picture on the right is blocked with the synthesized peptide.




Western blot analysis of lysates from HUVEC and 293 cells, using FOXD3 Antibody. The lane on the right is blocked with the synthesized peptide.




Western Blot analysis of various cells using FoxD3 Polyclonal Antibody.