

# FOXD1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14388A

## Product Information

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<b>Application</b>	WB, IHC-P, IF, E
<b>Primary Accession</b>	<a href="#">Q16676</a>
<b>Other Accession</b>	<a href="#">Q61345</a> , <a href="#">NP_004463.1</a>
<b>Reactivity</b>	Human, Mouse
<b>Predicted</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB34308
<b>Calculated MW</b>	46140
<b>Antigen Region</b>	1-30

## Additional Information

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<b>Gene ID</b>	2297
<b>Other Names</b>	Forkhead box protein D1, Forkhead-related protein FKHL8, Forkhead-related transcription factor 4, FREAC-4, FOXD1, FKHL8, FREAC4
<b>Target/Specificity</b>	This FOXD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human FOXD1.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 IF~~1:25 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	FOXD1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	FOXD1
<b>Synonyms</b>	FKHL8, FREAC4

## Function

Transcription factor involved in regulation of gene expression in a variety of processes, including formation of positional identity in the developing retina, regionalization of the optic chiasm, morphogenesis of the kidney, and neuralization of ectodermal cells (By similarity). Involved in transcriptional activation of PGF and C3 genes (PubMed:[27805902](#)).

## Cellular Location

Nucleus.

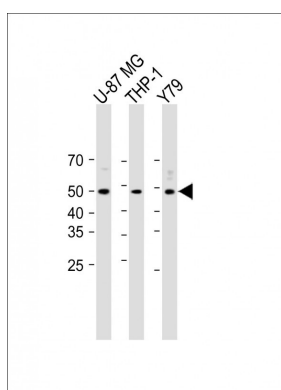
## Background

This intronless gene belongs to the forkhead family of transcription factors which is characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in tumor formation.

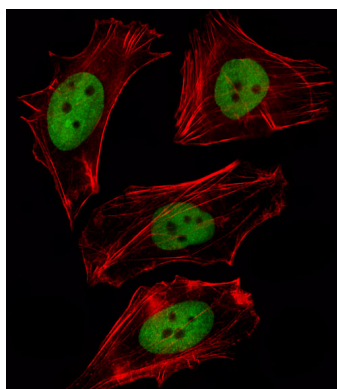
## References

Berg, D.T., et al. J. Biol. Chem. 280(15):14943-14947(2005)  
Ernstsson, S., et al. J. Biol. Chem. 271(35):21094-21099(1996)  
Larsson, C., et al. Genomics 30(3):464-469(1995)  
Pierrou, S., et al. EMBO J. 13(20):5002-5012(1994)

## Images

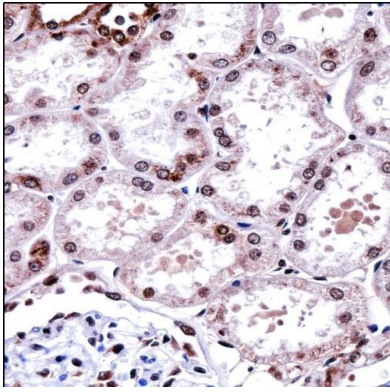


All lanes: Anti-FOXD1 Antibody (N-term) at 1:1000 dilution  
Lane 1: U-87 MG whole cell lysate Lane 2: THP-1 whole cell lysate Lane 3: Y79 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 48 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



Fluorescent image of B-3 cell stained with FOXD1 Antibody (N-term)(Cat#AP14388a/SA110804BE).B-3 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with FOXD1 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C).FOXD1 immunoreactivity is localized to Nucleus significantly.

FOXD1 Antibody (N-term)  
(AP14388a)immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of FOXD1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



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