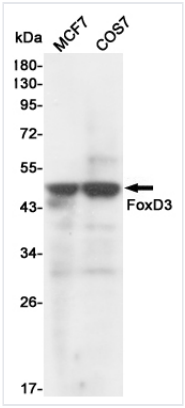
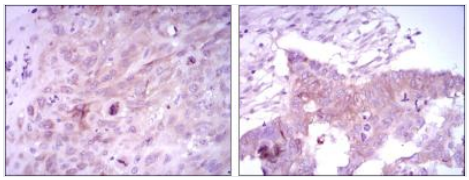
FoxD3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	FoxD3, Monoclonal Antibody
Full Product Name	Anti-FoxD3 Mouse mAb
Product Gene Name	anti-FoxD3 antibody
Product Synonym Gene Name	AIS1; HFH2; VAMAS2; Genesis
Product Synonym Names	AIS1; forkhead box D3; Forkhead box protein D3; foxd3; FOXD3_HUMAN; Genesis; HFH2; HNF3/FH transcription factor genesis; VAMAS2
Clonality	Monoclonal
Isotype	IgG1
Clone Number	3D11-E3-G3
Host	Mouse
Species Reactivity	Human, Monkey
Form/Format	Ascitic fluid containing 0.03% sodium azide.
Molecular Weight	48kDa
OMIM	AF197560 Genomic DNA
3D Structure	ModBase 3D Structure for Q9UJU5
Immunogen	Purified recombinant fragment of human FOXD3 expressed in E Coli.
Sequence Similarities	Contains 1 fork-head DNA-binding domain.
Subcellular Location	Nucleus
Applications Tested/Suitable for anti-FoxD3 antibody	Western Blot (WB)
Related Product Information for anti-FoxD3 antibody	Entrez Summary: 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] UniPort Summary 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.
Other Notes	Small volumes of anti-FoxD3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FoxD3 purchase	MBS476106 is an antibody targeting FoxD3. Also known as Anti-FoxD3 Mouse mAb. Reactive in Human, Monkey. Host: Mouse.



Western Blot (WB) of anti-FoxD3 antibody
Western blot detection of FoxD3 in MCF7 and COS7 cell lysates using FoxD3 mouse mAb (1:1000 diluted).Predicted band size:48KDa.Observed band size:48KDa.



Immunohistochemistry (IHC) of anti-FoxD3 antibody
Immunohistochemical analysis of paraffin-embedded lung cancer tissues (left) and ovarian cancer tissues (right) using FOXD3 mouse mAb with DAB staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FoxD3. It may not necessarily be applicable to this product.

NCBI GI #	6912372
NCBI GeneID	27022
NCBI Accession #	NP_036315.1
UniProt Primary Accession #	Q9UJU5
UniProt Secondary Accession #	Q9BYM2; Q9UDD1
UniProt Related Accession #	Q9UJU5
GenBank Nucleotide #	NM_012183.2
NCBI Official Full Name	forkhead box protein D3
NCBI Official Synonym Full Names	forkhead box D3
NCBI Official Symbol	FOXD3
NCBI Official Synonym Symbols	AIS1; HFH2; VAMAS2; Genesis
UniProt Protein Name	Forkhead box protein D3
UniProt Synonym Protein Names	HNF3/FH transcription factor genesis
Protein Family	Forkhead box protein
UniProt Gene Name	FOXD3
UniProt Synonym Gene Names	HFH2
NCBI Protein Information	forkhead box protein D3
NCBI Summary for FoxD3	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]

UniProt Comments for FoxD3	FOXD3: 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. Expressed in chronic myeloid leukemia, Jurkat T-cell leukemia and teratocarcinoma cell lines, but not in any other cell lines or normal tissues examined. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 1p31.3 Cellular Component: nuclear chromatin; nucleoplasm Molecular Function: protein binding; transcription factor activity Biological Process: in utero embryonic development; negative regulation of transcription from RNA polymerase II promoter; positive regulation of transcription from RNA polymerase II promoter; somatic stem cell maintenance Disease: Autoimmune Disease, Susceptibility To, 1
Research Articles on FoxD3	**1.** FOXD3 is sufficient but not necessary to drive PAX3 expression in melanoma cells.
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