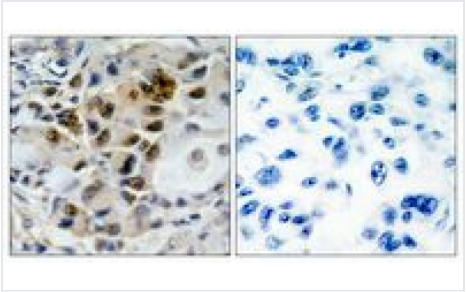
AFX Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AFX, Polyclonal Antibody
Full Product Name	Rabbit polyclonal AFX antibody
Product Gene Name	anti-AFX antibody
Product Synonym Names	AFX antibody
Clonality	Polyclonal
Host	Rabbit
Form/Format	Supplied in liquid form in PBS buffer (no MG2+ or Ca2+), pH 7.4, 150 mm NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified by immunoaffinity chromatography.
Concentration	1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	47,941 Da
3D Structure	ModBase 3D Structure for P98177
Immunogen	AFX antibody was raised in Rabbit using the peptide sequence around aa 195~199 (A-A-S-M-D) derived from Human AFX as the immunogen.
Cross-Reactivity	Human, Mouse, Rat
Product Categories/Family for anti-AFX antibody	Cancer
Applications Tested/Suitable for anti-AFX antibody	Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-AFX antibody	IHC: 1:50-1:100 WB: 1:500-1:1000
Related Product Information for anti-AFX antibody	MBS5304754 is an antibody targeting AFX. Also known as Rabbit polyclonal AFX antibody. Host: Rabbit.
Other Notes	Small volumes of anti-AFX 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.



Immunohistochemistry (IHC) of anti-AFX antibody
Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using AFX antibody (left) or the same antibody preincubated with with blocking peptide (right)

ADDITIONAL DETAILS

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

NCBI GI #	1418759
NCBI GeneID	4303
NCBI Accession #	CAA63819.1
UniProt Primary Accession #	P98177
UniProt Secondary Accession #	O43821; Q13720; Q3KPF1; Q8TDK9; B7WPJ7
UniProt Related Accession #	P98177
NCBI Official Full Name	AFX
NCBI Official Synonym Full Names	forkhead box O4
NCBI Official Symbol	FOXO4
NCBI Official Synonym Symbols	AFX; AFX1; MLLT7
UniProt Protein Name	Forkhead box protein O4
UniProt Synonym Protein Names	Fork head domain transcription factor AFX1
UniProt Gene Name	FOXO4
UniProt Synonym Gene Names	AFX; AFX1; MLLT7
NCBI Protein Information	forkhead box protein O4
NCBI Summary for AFX	This gene encodes a member of the O class of winged helix/forkhead transcription factor family. Proteins encoded by this class are regulated by factors involved in growth and differentiation indicating they play a role in these processes. A translocation involving this gene on chromosome X and the homolog of the Drosophila trithorax gene, encoding a DNA binding protein, located on chromosome 11 is associated with leukemia. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2010]

UniProt Comments for AFX	FOXO4: a transcription factor involved in the regulation of the insulin signaling pathway. Binds to insulin-response elements (IREs) and can activate transcription of IGFBP1. Down-regulates expression of HIF1A and suppresses hypoxia-induced transcriptional activation of HIF1A-modulated genes. Also involved in negative regulation of the cell cycle. Involved in increased proteasome activity in embryonic stem cells (ESCs) by activating expression of PSMD11 in ESCs, leading to enhanced assembly of the 26S proteasome, followed by higher proteasome activity. IR-induced cellular senescence induces progressive increases in FOXO4, but has little effect on FOXO1 and FOXO3 expression. Two splice-variant isoforms have been described. Protein type: DNA-binding; Oncoprotein; Transcription factor Chromosomal Location of Human Ortholog: Xq13.1 Cellular Component: cytoplasm; cytosol; nucleoplasm; nucleus Molecular Function: beta-catenin binding; DNA binding; enzyme binding; identical protein binding; protein binding; sequence-specific DNA binding; transcription factor activity; transcription factor binding Biological Process: cell cycle arrest; insulin receptor signaling pathway; negative regulation of angiogenesis; negative regulation of cell proliferation; negative regulation of smooth muscle cell differentiation; positive regulation of transcription from RNA polymerase II promoter; regulation of transcription, DNA-dependent; stem cell differentiation; transcription from RNA polymerase II promoter
Research Articles on AFX	**1.** FOXO4 has an inhibitory effect in clearcell renal carcinoma cells, at least in part through inducing apoptosis via upregulation of Bim in the mitochondria-dependent pathway.
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