FOXO4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FOXO4, Polyclonal Antibody
Full Product Name	FOXO4 Rabbit pAb
Product Gene Name	anti-FOXO4 antibody
Product Synonym Names	Forkhead box protein O4; Fork head domain transcription factor AFX1; AFX; AFX1; MLLT7; FOXO4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	65kDa
OMIM	300033
3D Structure	ModBase 3D Structure for P98177
Immunogen	A synthesized peptide derived from human FoxO4
Cellular Localization	Cytoplasm, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-FOXO4 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-FOXO4 antibody	WB: 1:5000-1:20000 IHC: 1:50-1:200
Related Product Information for anti-FOXO4 antibody	The Forkhead family of transcription factors is involved in tumorigenesis of rhabdomyosarcoma and acute leukemias. 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.
Other Notes	Small volumes of anti-FOXO4 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 FOXO4 purchase	MBS8542910 is an antibody targeting FOXO4. Also known as FOXO4 Rabbit pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOXO4. It may not necessarily be applicable to this product.

NCBI GI #	283436083
NCBI GeneID	4303

NCBI Accession #	NP_001164402.1
UniProt Primary Accession #	P98177
UniProt Related Accession #	P98177
GenBank Nucleotide #	NP_001164402.1
NCBI Official Full Name	forkhead box protein O4 isoform 2
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
Protein Family	Forkhead box protein
UniProt Gene Name	FOXO4
UniProt Synonym Gene Names	AFX; AFX1; MLLT7
UniProt Entry Name	FOXO4_HUMAN
NCBI Protein Information	forkhead box protein O4
NCBI Summary for FOXO4	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 FOXO4	FOXO4: transcription factor AFX1 containing 1 fork-head domain. May play a role in the insulin signaling pathway. Involved in acute leukemias by a chromosomal translocation t(X;11)(q13;q23) that involves MLLT7 and MLL/HRX. The result is a rogue activator protein. Two splice-variant isoforms have been described. Protein type: DNA-binding; Oncoprotein; Transcription factor Chromosomal Location of Human Ortholog: Xq13.1 Cellular Component: nucleoplasm; cytoplasm; cytosol; nucleus Molecular Function: protein binding; enzyme binding; DNA binding; sequence-specific DNA binding; transcription factor activity; transcription factor binding Biological Process: epidermal growth factor receptor signaling pathway; transcription from RNA polymerase II promoter; muscle development; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; nerve growth factor receptor signaling pathway; positive regulation of transcription, DNA-dependent; stem cell differentiation; negative regulation of smooth muscle cell differentiation; regulation of transcription from RNA polymerase II promoter; negative regulation of cell proliferation; negative regulation of angiogenesis; regulation of transcription, DNA-dependent; mitotic cell cycle G2/M transition DNA damage checkpoint; insulin receptor signaling pathway; innate immune response; cell cycle arrest
Research Articles on FOXO4	**1.** Low FOXO4 expression is associated with recurrence and metastasis of nasopharyngeal carcinoma.
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