FOXO4 Blocking Peptide

PRODUCT OVERVIEW

Product Name	FOXO4, Blocking Peptide
Full Product Name	FOXO4 Peptide
Product Gene Name	FOXO4 blocking peptide
Product Synonym Names	AFX; AFX1; MLLT7; AFX; Forkhead box protein O4; Fork head domain transcription factor AFX1; forkhead box O4
Form/Format	Liquid
Concentration	200 ug/mL (lot specific)
Preparation and Storage	Store FOXO4 peptide at -20 degree C, stable for one year.
Antibody/Peptide Pairs	FOXO4 peptide (MBS152701) is used for blocking the activity of FOXO4 antibody (MBS150053)
Molecular Weight	47,941 Da
OMIM	300033
Species	Human
Buffer	PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide
Location	16 amino acids near the amino terminus of human FOXO4.
Applications Tested/Suitable for FOXO4 blocking peptide	Blocking (BL)
Application Notes for FOXO4 blocking peptide	FOXO4 peptide is used for blocking the activity of FOXO4 antibody.
Related Product Information for FOXO4 blocking peptide	MBS152701 is a blocking peptide targeting FOXO4. Also known as FOXO4 Peptide.
Other Notes	Small volumes of FOXO4 blocking peptide 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.

ADDITIONAL DETAILS

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

NCBI GI #	103472003
NCBI GeneID	4303
NCBI Accession #	NP_005929
UniProt Primary Accession #	P98177
UniProt Secondary Accession #	O43821; Q13720; Q3KPF1; Q8TDK9; B7WPJ7
UniProt Related Accession #	P98177
GenBank Nucleotide #	NM_005938.3
NCBI Official Full Name	forkhead box protein O4 isoform 1

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; fork head domain transcription factor AFX1; myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 7
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: Oncoprotein; DNA-binding; 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 binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; epidermal growth factor receptor signaling pathway; muscle development; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; 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.** FOXO4KD-EPCs injected into the rat ischemic limb brought less apoptosis and more neovascularization than EPCs
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