FOXM1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	FOXM1, Blocking Peptide
Full Product Name	FOXM1 Blocking Peptide
Product Gene Name	FOXM1 blocking peptide
Product Synonym Names	FKHL16; Forkhead box M1; Forkhead box protein M1; forkhead like 16; Forkhead-related protein FKHL16; FOX M1; Foxm1; FOXM1_HUMAN; FOXM1B; Hepatocyte nuclear factor 3 forkhead homolog 11; HFH-11; HFH11; HNF-3/fork-head homolog 11; HNF3; INS1; M phase phosphoprotein 2; M-phase phosphoprotein 2; MPHOSPH2; MPM-2 reactive phosphoprotein 2; MPP2; PIG29; TGT3; Transcription factor Trident; Trident; WIN; Winged-helix factor from INS-1 cells; Winged-helix factor from INS1 cells
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	FOXM1 peptide (MBS9626328) is used for blocking the activity of FOXM1 antibody (MBS9607615)
Molecular Weight	88,596 Da
OMIM	602341
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for FOXM1 blocking peptide	Blocking/Control
Related Product Information for FOXM1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of FOXM1 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.
Searchable Terms for FOXM1 purchase	MBS9626328 is a blocking peptide targeting FOXM1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOXM1. It may not necessarily be applicable to this product.

NCBI GI #	340545543
NCBI GeneID	2305
NCBI Accession #	NP_001230017.1
UniProt Primary Accession #	Q08050

UniProt Secondary Accession #	O43258; O43259; O43260; Q4ZGG7; Q9BRL2
UniProt Related Accession #	Q08050
GenBank Nucleotide #	NM_001243088.1
NCBI Official Full Name	forkhead box protein M1 isoform 4
NCBI Official Synonym Full Names	forkhead box M1
NCBI Official Symbol	FOXM1
NCBI Official Synonym Symbols	MPP2; TGT3; HFH11; HNF-3; INS-1; MPP-2; PIG29; FKHL16; FOXM1B; HFH-11; TRIDENT; MPHOSPH2
UniProt Protein Name	Forkhead box protein M1
UniProt Synonym Protein Names	Forkhead-related protein FKHL16; Hepatocyte nuclear factor 3 forkhead homolog 11; HFH-11; HNF-3/fork-head homolog 11; M-phase phosphoprotein 2; MPM-2 reactive phosphoprotein 2; Transcription factor Trident; Winged-helix factor from INS-1 cells
Protein Family	Forkhead box protein
UniProt Gene Name	FOXM1
UniProt Synonym Gene Names	FKHL16; HFH11; MPP2; WIN; HFH-11; HNF-3/fork-head homolog 11
UniProt Entry Name	FOXM1_HUMAN
NCBI Protein Information	forkhead box protein M1; M-phase phosphoprotein 2; HNF-3/fork-head homolog 11; transcription factor Trident; MPM-2 reactive phosphoprotein 2; forkhead-related protein FKHL16; winged-helix factor from INS-1 cells; Forkhead, drosophila, homolog-like 16; hep
NCBI Summary for FOXM1	The protein encoded by this gene is a transcriptional activator involved in cell proliferation. The encoded protein is phosphorylated in M phase and regulates the expression of several cell cycle genes, such as cyclin B1 and cyclin D1. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2011]
UniProt Comments for FOXM1	FOXM1: a transcriptional activator factor. Contains 1 fork-head domain. May play a role in the control of cell proliferation. Appears to be expressed only in adult organs containing proliferating/cycling cells or in response to growth factors. Also expressed in epithelial cell lines derived from tumors. Not expressed in resting cells. Phosphorylated in M (mitotic) phase. Three splice variant isoforms have been described. Isoform 1 and isoform 2 appear to be the only activators of gene transcription. Isoform 3, found in rat, does not seem to exist in human. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 12p13 Cellular Component: nucleoplasm; cytoplasm Molecular Function: protein binding; DNA binding; sequence-specific DNA binding; transcription factor activity; protein kinase binding Biological Process: transcription from RNA polymerase II promoter; regulation of Ras protein signal transduction; regulation of cell cycle; positive regulation of transcription, DNA-dependent; negative regulation of transcription from RNA polymerase II promoter; DNA repair; negative regulation of stress-activated MAPK cascade; liver development; cell cycle; regulation of cell proliferation; DNA damage response, signal transduction by p53 class mediator resulting in transcription of p21 class mediator; regulation of transcription, DNA-dependent; positive regulation of cell proliferation; positive regulation of transcription from RNA polymerase II promoter; mitotic cell cycle; regulation of cell growth; negative regulation of transcription, DNA-dependent; G2/M transition of mitotic cell cycle; vasculogenesis
Research Articles on FOXM1	**1.** we suggest that FOXM1 may be a potential target for lung cancer therapy.

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