SOX4 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	SOX4, Blocking Peptide
Full Product Name	SOX4 Peptide - N-terminal region
Product Gene Name	SOX4 blocking peptide
Product Synonym Gene Name	EVI16
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	SOX4 peptide (MBS3226429) is used for blocking the activity of SOX4 antibody (MBS3201407)
Molecular Weight	47kDa
OMIM	184430
Product Categories/Family for SOX4 blocking peptide	Peptide
Applications Tested/Suitable for SOX4 blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for SOX4 blocking peptide	This is a synthetic peptide designed for use in combination with anti-SOX4 antibody made Target Description: SOX4 is a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. It may act as a transcriptional regulator after forming a protein complex with other proteins, such as syndecan binding protein (syntenin). The protein may function in the apoptosis pathway leading to cell death as well as to tumorigenesis and may mediate downstream effects of parathyroid hormone (PTH) and PTH-related protein (PTHrP) in bone development. The solution structure has been resolved for the HMG-box of a similar mouse protein. This intronless gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional regulator after forming a protein complex with other proteins, such as syndecan binding protein (syntenin). The protein may function in the apoptosis pathway leading to cell death as well as to tumorigenesis and may mediate downstream effects of parathyroid hormone (PTH) and PTH-related protein (PTHrP) in bone development. The solution structure has been resolved for the HMG-box of a similar mouse protein. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
Other Notes	Small volumes of SOX4 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 SOX4 purchase	MBS3226429 is a blocking peptide targeting SOX4. Also known as SOX4 Peptide - N-terminal region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SOX4. It may not necessarily be applicable to this product.

NCBI GI #	4507163
NCBI GeneID	6659
NCBI Accession #	NP_003098

UniProt Primary Accession #	Q06945
UniProt Related Accession #	Q06945
GenBank Nucleotide #	NM_003107
NCBI Official Full Name	transcription factor SOX-4
NCBI Official Synonym Full Names	SRY-box 4
NCBI Official Symbol	SOX4
NCBI Official Synonym Symbols	EVI16
UniProt Protein Name	Transcription factor SOX-4
Protein Family	Transcription factor
UniProt Gene Name	SOX4
UniProt Entry Name	SOX4_HUMAN
NCBI Protein Information	transcription factor SOX-4
NCBI Summary for SOX4	This intronless gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional regulator after forming a protein complex with other proteins, such as syndecan binding protein (syntenin). The protein may function in the apoptosis pathway leading to cell death as well as to tumorigenesis and may mediate downstream effects of parathyroid hormone (PTH) and PTH-related protein (PTHrP) in bone development. The solution structure has been resolved for the HMG-box of a similar mouse protein. [provided by RefSeq, Jul 2008]
UniProt Comments for SOX4	SOX4: Transcriptional activator that binds with high affinity to the T-cell enhancer motif 5'-AACAAAG-3' motif. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 6p22.3 Cellular Component: nucleoplasm; mitochondrion; cytoplasm; nucleus Molecular Function: protein binding; protein heterodimerization activity; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; negative regulation of protein export from nucleus; positive regulation of translation; somatic stem cell maintenance; positive regulation of apoptosis; heart development; positive regulation of transcription, DNA-dependent; regulation of protein stability; Wnt receptor signaling pathway through beta-catenin; glucose homeostasis; DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest; glial cell proliferation; negative regulation of cell proliferation; sympathetic nervous system development; regulation of transcription, DNA-dependent; positive regulation of cell proliferation; positive regulation of Wnt receptor signaling pathway; skeletal development; T cell differentiation; glial cell development; pro-B cell differentiation; protein stabilization; positive regulation of insulin secretion; DNA damage response, detection of DNA damage; spinal cord motor neuron differentiation; endocrine pancreas development; limb bud formation; spinal cord development; negative regulation of protein ubiquitination; positive regulation of transcription from RNA polymerase II promoter; neural tube formation
Research Articles on SOX4	**1.** SOX4 appears to be an important tumor oncogene in the regulation of osteosarcoma cell proliferation, apoptosis, and invasion
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/sox4/3226429