SOX-4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SOX-4, Polyclonal Antibody
Full Product Name	Rabbit anti SOX-4 Polyclonal Antibody
Product Gene Name	anti-SOX-4 antibody
Product Synonym Names	SRY (sex determining region Y)-box 4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in sterile Phosphate buffered saline (pH7.2) containing antibody stabilizer.
Purity/Purification	Purified by Epitope Affinity Purification
Specificity	This antibody recognizes ~94 kDa of SOX6 protein. It cross-reacts to human, mouse, rat. The other species are not tested.
Preparation and Storage	The antibodies are stable for 12 months from date of receipt when stored at -20 degree C. The antibodies can be stored at 2 degree C - 8 degree C for one month without detectable loss of activity. Avoid repeated freezing-thawing cycles.
Molecular Weight	47,263 Da
OMIM	X70683 mRNA
3D Structure	ModBase 3D Structure for Q06945
Preparation	A synthetic peptide corresponding to the c-terminus (from 720AA-755aa) of human sox6 protein. This sequence is identical in human, mouse, rat, bovine, canis and chicken species.
Applications Tested/Suitable for anti-SOX-4 antibody	ELISA (EIA), Flow Cytometry (FC/FACS), Immunohistochemistry (IHC), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-SOX-4 antibody	ELISA: 0.01-0.1 ug/ml Flow Cytometry: 5-10 ug/ml Immunohistochemistry: 2-10 ug/ml Immunoprecipitation: 2-5 ug/ml Western Blot: 0.1-1 ug/ml
Related Product Information for anti-SOX-4 antibody	SOX6 gene encodes a member of the D subfamily of sex determining region y-related transcription factors that are characterized by a conserved DNA-binding domain termed the high mobility group box and by their ability to bind the minor groove of DNA. SOX6 protein is a transcriptional activator that is specifically expressed in the developing central nervous system and in the early stages of chondrogenesis in mouse embryos. It is found to be essential to both cartilage formation/chondrogenesis and obesity-related insulin resistance. The SOX6 protein is also detected in glioma patient sera and brain tissues.
Product References and Citations for anti-SOX-4 antibody	Cohen-Barak, O., Hagiwara, N., Arlt, M.F., Horton, J.P. and Brilliant, M.H. Cloning, characterization and chromosome mapping of the human SOX6 gene. Gene 265 (1-2), 157-164 (2001)
Other Notes	Small volumes of anti-SOX-4 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 SOX-4 purchase	MBS460381 is an antibody targeting SOX-4. Also known as Rabbit anti SOX-4 Polyclonal Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SOX-4. It may not necessarily be applicable to this product.

NCBI GI #	938230
NCBI GeneID	6659
NCBI Accession #	CAA46612.1
UniProt Primary Accession #	Q06945
UniProt Related Accession #	Q06945
NCBI Official Full Name	SOX-4, partial
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
NCBI Protein Information	transcription factor SOX-4
NCBI Summary for SOX-4	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 SOX-4	SOX4: Transcriptional activator that binds with high affinity to the T-cell enhancer motif 5'-AACAAAG-3' motif. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 6p22.3 Cellular Component: cytoplasm; mitochondrion; nucleoplasm; nucleus Molecular Function: protein binding; transcription factor activity Biological Process: DNA damage response, detection of DNA damage; DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest; glial cell development; glial cell proliferation; glucose homeostasis; heart development; limb bud formation; negative regulation of cell proliferation; negative regulation of protein export from nucleus; negative regulation of protein ubiquitination; neural tube formation; positive regulation of apoptosis; positive regulation of cell proliferation; positive regulation of insulin secretion; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; positive regulation of translation; positive regulation of Wnt receptor signaling pathway; pro-B cell differentiation; protein stabilization; regulation of protein stability; regulation of transcription, DNA-dependent; skeletal development; spinal cord development; spinal cord motor neuron differentiation; sympathetic nervous system development; T cell differentiation; Wnt receptor signaling pathway through beta-catenin
Research Articles on SOX-4	**1.** The cisplatin-resistance significantly decreased in A549/DDP cells after knockdown of SOX4 by siRNA transfection.

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