SOX7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SOX7, Polyclonal Antibody
Full Product Name	Anti-SOX7 Antibody
Product Gene Name	anti-SOX7 antibody
Product Synonym Names	SOX7; Transcription factor SOX-7; SRY-box transcription factor 7
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Rabbit IgG polyclonal antibody for SOX7 detection.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
Molecular Weight	48,522 Da
OMIM	612202
3D Structure	ModBase 3D Structure for Q9BT81
Immunogen	E Coli-derived human SOX7 recombinant protein (Position: K57-D343).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems||Lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (MBS176460) for Western blot.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-SOX7 antibody	Western Blot (WB), Direct ELISA (EIA)
Application Notes for anti-SOX7 antibody	WB: 0.25-0.5ug/ml|Human| Direct ELISA: 0.1-0.5ug/ml|Human|
Related Product Information for anti-SOX7 antibody	SOX7 belongs to SOX gene family and SOX proteins are transcription factors with critical roles in the regulation of diverse developmental processes. This gene is mapped to 8p23. 1. SOX7 gene contains at least 2 exons. In cotransfected 293 cells, Sox7 reduced Wnt(see WNT1)/beta-catenin(see CTNNB1)- stimulated transcription. SOX7 is a potent activator of FGF3 transcription. It not only plays a role in the transcriptional regulation of genes expressed in the hemogenic endothelium but also blocks further differentiation into blood precursors. And it may be required for the survival of both hematopoietic and endothelial precursors during specification.

Product References and Citations for anti-SOX7 antibody	1. Murakami, A., Shen, H., Ishida, S., Dickson, C. SOX7 and GATA-4 are competitive activators of Fgf-3 transcription. J. Biol. Chem. 279: 28564-28573, 2004. 2. "Sox7 Is an independent checkpoint for beta-catenin function in prostate and colon epithelial cells. " Guo L., Zhong D., Lau S., Liu X., Dong X. Y., Sun X., Yang V. W., Vertino P. M., Moreno C. S., Varma V., Dong J. T., Zhou W. Mol. Cancer Res. 6:1421-1430(2008). 3. Takash, W., Canizares, J., Bonneaud, N., Poulat, F., Mattei, M. -G., Jay, P., Berta, P. SOX7 transcription factor: sequence, chromosomal localisation, expression, transactivation and interference with Wnt signaling. Nucleic Acids Res. 29: 4274-4283, 2001.
Other Notes	Small volumes of anti-SOX7 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 SOX7 purchase	MBS1753685 is an antibody targeting SOX7. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SOX7. It may not necessarily be applicable to this product.

NCBI GI #	20532272
NCBI GeneID	83595
NCBI Accession #	Q9BT81.1
UniProt Primary Accession #	Q9BT81
UniProt Secondary Accession #	Q53YD0; B4DKV0
UniProt Related Accession #	Q9BT81
NCBI Official Full Name	Transcription factor SOX-7
NCBI Official Synonym Full Names	SRY (sex determining region Y)-box 7
NCBI Official Symbol	SOX7
UniProt Protein Name	Transcription factor SOX-7
Protein Family	Transcription factor
UniProt Gene Name	SOX7
UniProt Entry Name	SOX7_HUMAN
NCBI Protein Information	transcription factor SOX-7
NCBI Summary for SOX7	This 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. The protein may play a role in tumorigenesis. A similar protein in mice is involved in the regulation of the wingless-type MMTV integration site family (Wnt) pathway. [provided by RefSeq, Jul 2008]

UniProt Comments for SOX7	SOX7: Binds to and activates the CDH5 promoter, hence plays a role in the transcriptional regulation of genes expressed in the hemogenic endothelium and blocks further differentiation into blood precursors. May be required for the survival of both hematopoietic and endothelial precursors during specification. Competes with GATA4 for binding and activation of the FGF3 promoter. Represses Wnt/beta-catenin-stimulated transcription, probably by targeting CTNNB1 to proteasomal degradation. Binds the DNA sequence 5'- AACAAT-3'. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 8p23.1 Cellular Component: cytoplasm; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; sequence-specific DNA binding; transcription factor activity Biological Process: regulation of transcription from RNA polymerase II promoter; transcription from RNA polymerase II promoter; negative regulation of cell proliferation; endoderm formation; positive regulation of transcription, DNA-dependent; positive regulation of caspase activity; negative regulation of transcription, DNA-dependent
Research Articles on SOX7	**1.** SOX7 acts as a tumor suppressor in breast cancer.
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