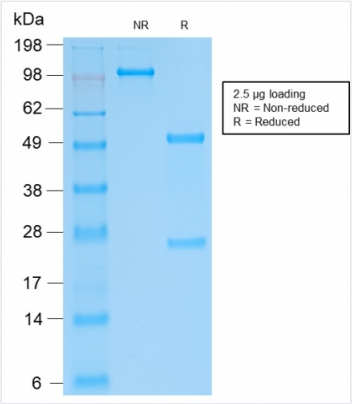
SOX9 Antibody – Rabbit

PRODUCT OVERVIEW

Product Name	SOX9/SRY-box 9, Antibody
Full Product Name	SOX9/SRY-box 9
Product Gene Name	anti-SOX9 antibody
Product Synonym Names	CMD 1; campomelic dysplasia autosomal sex reversal; SRA1; SRXX2; SRXY10; SRY (sex determining region Y) box 9; SRY related HMG box gene 9; Transcription factor SOX 9
Isotype	IgG
Clone Number	SOX9/2287R
Host	Rabbit
Species Reactivity	Human
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Specificity	The specificity of this monoclonal antibody to its intended target was validated by HuProtTM Array, containing more than 19,000, full-length human proteins. Plays an important role in the normal skeletal development. May regulate the expression of other genes involved in chondrogenesis by acting as a transcription factor for these genes. Nucleus (Potential). Campomelic dysplasia (CMD1) [MIM:114290]: Rare, often lethal, dominantly inherited, congenital osteo-chondrodysplasia, associated with male-to-female autosomal sex reversal in two-thirds of the affected karyotypic males. A disease of the newborn characterized by congenital bowing and angulation of long bones, unusually small scapulae, deformed pelvis and spine and a missing pair of ribs. Craniofacial defects such as cleft palate, micrognathia, flat face and hypertelorism are common.
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Molecular Weight	56kDa
OMIM	114290
3D Structure	ModBase 3D Structure for P48436
Positive Control	Human Skin Hair follicles.
Immunogen	Recombinant human full-length SOX9 protein
Cellular Localization	Nuclear
Hu-chromosome Location	17q24.3
Antibody Type	Recombinant Rabbit Monoclonal Antibody
Applications Tested/Suitable for anti-SOX9 antibody	ELISA (EIA)
Application Notes for anti-SOX9 antibody	ELISA: For coating use Ab at 1-5ug/ml, order Ab without BSA
Related Product Information for anti-SOX9 antibody	MBS4381260 is an antibody targeting SOX9. Also known as SOX9/SRY-box 9. Reactive in Human. Host: Rabbit.

Product References and Citations for anti-SOX9 antibody	Zhu, H., et al. 2013. Upregulation of SOX9 in osteosarcoma and its association with tumor progression and patients prognosis. Diagn.Pathol. 8:183.
Other Notes	Small volumes of anti-SOX9 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.



SDS-Page of anti-SOX9 antibody
SDS-PAGE Analysis Purified SOX9 Recombinant Rabbit Monoclonal Antibody (SOX9/2287R). Confirmation of Integrity and Purity of the Antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SOX9. It may not necessarily be applicable to this product.

NCBI GI #	4557853
NCBI GeneID	6662
NCBI Accession #	NP_000337.1
UniProt Primary Accession #	P48436
UniProt Related Accession #	P48436
GenBank Nucleotide #	NP_000337.1
NCBI Official Full Name	transcription factor SOX-9
NCBI Official Synonym Full Names	SRY-box transcription factor 9
NCBI Official Symbol	SOX9
NCBI Official Synonym Symbols	CMD1; SRA1; CMPD1; SRXX2; SRXY10
UniProt Protein Name	Transcription factor SOX-9
Protein Family	Transcription factor
UniProt Gene Name	SOX9
UniProt Entry Name	SOX9_HUMAN
NCBI Protein Information	transcription factor SOX-9
NCBI Summary for SOX9	The protein encoded by this gene recognizes the sequence CCTTGAG along with other members of the HMG-box class DNA-binding proteins. It acts during chondrocyte differentiation and, with steroidogenic factor 1, regulates transcription of the anti-Muellerian hormone (AMH) gene. Deficiencies lead to the skeletal malformation syndrome campomelic dysplasia, frequently with sex reversal. [provided by RefSeq, Jul 2008]

UniProt Comments for SOX9	SOX9: Plays an important role in the normal skeletal development. May regulate the expression of other genes involved in chondrogenesis by acting as a transcription factor for these genes. Defects in SOX9 are the cause of campomelic dysplasia (CMD1). CMD1 is a rare, often lethal, dominantly inherited, congenital osteochondrodysplasia, associated with male- to-female autosomal sex reversal in two-thirds of the affected karyotypic males. A disease of the newborn characterized by congenital bowing and angulation of long bones, unusually small scapulae, deformed pelvis and spine and a missing pair of ribs. Craniofacial defects such as cleft palate, micrognatia, flat face and hypertelorism are common. Various defects of the ear are often evident, affecting the cochlea, malleus incus, stapes and tympanum. Most patients die soon after birth due to respiratory distress which has been attributed to hypoplasia of the tracheobronchial cartilage and small thoracic cage. Defects in SOX9 are the cause of 46,XX sex reversal type 2 (SRXX2). SRXX2 is a condition in which male gonads develop in a genetic female (female to male sex reversal). Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 17q24.3 Cellular Component: nucleoplasm; protein complex; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; protein heterodimerization activity; bHLH transcription factor binding; beta-catenin binding; chromatin binding; transcription factor activity; protein kinase activity Biological Process: prostate gland development; extracellular matrix organization and biogenesis; somatic stem cell maintenance; positive regulation of transcription, DNA-dependent; astrocyte fate commitment; negative regulation of chondrocyte differentiation; negative regulation of epithelial cell differentiation; notochord development; protein amino acid phosphorylation; regulation of apoptosis; negative regulation of bone mineralization; cell-cell adhesion; hair follicle development; positive regulation of mesenchymal cell proliferation; tissue homeostasis; negative regulation of ossification; oligodendrocyte differentiation; positive regulation of epithelial cell differentiation; protein complex assembly; cartilage condensation; negative regulation of photoreceptor cell differentiation; positive regulation of phosphoinositide 3-kinase cascade; nucleosome assembly; positive regulation of chondrocyte differentiation; retina development in camera-type eye; positive regulation of protein catabolic process; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; positive regulation of epithelial cell proliferation; negative regulation of apoptosis; transcription from RNA polymerase II promoter; neural crest cell development; Sertoli cell differentiation; cell fate specification; negative regulation of immune system process; signal transduction; cAMP-mediated signaling; mammary gland development; positive regulation of cell proliferation; protein kinase B signaling cascade; otic vesicle formation; skeletal development; negative regulation of epithelial cell proliferation; regulation of cell adhesion; epidermal growth factor receptor signaling pathway; ossification; male gonad development; cytoskeleton organization and biogenesis; Sertoli cell development; endocrine pancreas development; regulation of cell proliferation; male germ-line sex determination; chromatin remodeling; limb bud formation; ureteric bud branching; cartilage development; epithelial to mesenchymal transition; spermatogenesis; positive regulation of protein amino acid phosphorylation; negative regulation of myoblast differentiation Disease: Campomelic Dysplasia; 46,xy Sex Reversal 10
Research Articles on SOX9	**1.** Changes in the expressions of SOX9 and GKN1 may be associated with the malignant biological behavior of gastric cancer.
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/human-antibody/sox9-sry-box-9/4381260