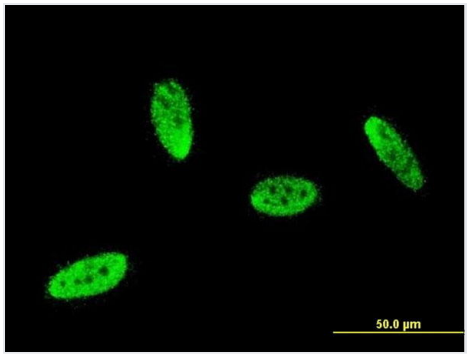
SOX8 Antibody – Mouse Monoclonal

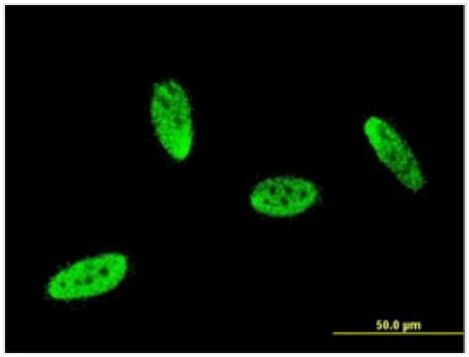
PRODUCT OVERVIEW

Product Name	SOX8, Monoclonal Antibody
Full Product Name	SOX8 (SRY (Sex Determining Region Y)-Box 8, MGC24837) (FITC)
Product Gene Name	anti-SOX8 antibody
Product Synonym Names	SRY (Sex Determining Region Y)-Box 8; MGC24837
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	8G7
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified
Specificity	Recognizes SOX8.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in as FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	47kDa
OMIM	605923
3D Structure	ModBase 3D Structure for P57073
Immunogen	SOX8 (NP_055402, 102aa-210aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	VKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLWRLLSESEKRPFVEEAERLRVQHKKDHPDYKYQPRRRKSAKAGHSDSDSGAELGPHPGG
Conjugate	FITC
Product Categories/Family for anti-SOX8 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-SOX8 antibody	ELISA (EIA), Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-SOX8 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-SOX8 antibody	This gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development a determination of the cell fate. The encoded protein may act as a transcriptional activator after forming a protein complex with other proteins. This protei in brain development and function. Haploinsufficiency for this protein may contribute to the mental retardation found in haemoglobin H-related mental re syndrome). [provided by RefSeq]
Other Notes	Small volumes of anti-SOX8 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess 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 apply.
Searchable Terms for SOX8 purchase	MBS6176311 is an antibody targeting SOX8. Also known as SOX8 (SRY (Sex Determining Region Y)-Box 8, MGC24837) (FITC). Host: Mouse.



Immunofluorescence (IF) of anti-SOX8 antibody
Immunofluorescence of monoclonal antibody to SOX8 on HeLa cell. [antibody concentration 10 ug/ml]



Immunofluorescence (IF) of anti-SOX8 antibody
Immunofluorescence of monoclonal antibody to SOX8 on HeLa cell. [antibody concentration 10 ug/ml]

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SOX8. It may not necessarily be applicable to this product.

NCBI GI #	30179903
NCBI GeneID	30812
NCBI Accession #	NP_055402
UniProt Primary Accession #	P57073
UniProt Related Accession #	P57073
GenBank Nucleotide #	NM_014587
NCBI Official Full Name	transcription factor SOX-8
NCBI Official Synonym Full Names	SRY-box 8
NCBI Official Symbol	SOX8
UniProt Protein Name	Transcription factor SOX-8
Protein Family	Transcription factor
UniProt Gene Name	SOX8
UniProt Entry Name	SOX8_HUMAN
NCBI Protein Information	transcription factor SOX-8

NCBI Summary for SOX8	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 activator after forming a protein complex with other proteins. This protein may be involved in brain development and function. Haploinsufficiency for this protein may contribute to the cognitive disability found in an alpha-thalassemia-related syndrome (ART-16). This protein is also highly expressed in the majority of human hepatocellular carcinomas and promotes cellular proliferation and enhanced tumor growth. [provided by RefSeq, Jul 2017]
UniProt Comments for SOX8	SOX8: May play a role in central nervous system, limb and facial development. May be involved in male sex determination. Binds the consensus motif 5'-[AT][AT]CAA[AT]G-3'. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: cytoplasm; nucleus Molecular Function: DNA binding; protein heterodimerization activity; transcription factor binding Biological Process: negative regulation of photoreceptor cell differentiation; transcription from RNA polymerase II promoter; fat cell differentiation; cell fate commitment; positive regulation of gliogenesis; in utero embryonic development; astrocyte fate commitment; positive regulation of transcription, DNA-dependent; male gonad development; cell maturation; signal transduction; Sertoli cell development; enteric nervous system development; peripheral nervous system development; osteoblast differentiation; retina development in camera-type eye; positive regulation of osteoblast proliferation; oligodendrocyte differentiation; spermatogenesis; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; negative regulation of myoblast differentiation; neural crest cell migration; negative regulation of apoptosis
Research Articles on SOX8	**1.** These data demonstrate that SOX8 plays an important role in human reproduction and SOX8 mutations contribute to a spectrum of phenotypes including 46, XY DSD, male infertility and 46, XX POI.
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Online datasheet: https://www.mybiosource.com/monoclonal-antibody/sox8/6176311