SOX12 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	SOX12, Monoclonal Antibody
Full Product Name	SOX12 (SRY (Sex Determining Region Y)-Box 12, SOX22) (MaxLight 650)
Product Gene Name	anti-SOX12 antibody
Product Synonym Names	SRY (Sex Determining Region Y)-Box 12; SOX22
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4A7
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified
Specificity	Recognizes SOX12.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	34kDa
OMIM	601947
3D Structure	ModBase 3D Structure for O15370
Immunogen	SOX12 (NP_008874, 252aa-313aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	LGFLSRLPPGPAGLDCSALDRDPDLQPPSGTSHFEFPDYCTPEVTEMIAGDWRPSSIADLVF
Conjugate	MaxLight650
Product Categories/Family for anti-SOX12 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-SOX12 antibody	Western Blot (WB)
Application Notes for anti-SOX12 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-SOX12 antibody	Members of the SOX family of transcription factors are characterized by the presence of a DNA-binding high mobility group (HMG) domain, homologous to the HMG box of sex-determining region Y (SRY). Forming a subgroup of the HMG domain superfamily, SOX proteins have been implicated in cell fate decisions in a diverse range of developmental processes. SOX transcription factors have diverse tissue-specific expression patterns during early development and have been proposed to act as target-specific transcription factors and/or as chromatin structure regulatory elements. The protein encoded by this gene was identified as a SOX family member based on conserved domains and its expression in various tissues suggests a role in both differentiation and maintenance of several cell types. [provided by RefSeq]
Other Notes	Small volumes of anti-SOX12 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 SOX12 purchase	MBS6230020 is an antibody targeting SOX12. Also known as SOX12 (SRY (Sex Determining Region Y)-Box 12, SOX22) (MaxLight 650). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SOX12. It may not necessarily be applicable to this product.

NCBI GI #	21264339
NCBI GeneID	6666
NCBI Accession #	NP_008874
UniProt Primary Accession #	O15370
UniProt Related Accession #	O15370
GenBank Nucleotide #	NM_006943
NCBI Official Full Name	transcription factor SOX-12
NCBI Official Synonym Full Names	SRY-box 12
NCBI Official Symbol	SOX12
NCBI Official Synonym Symbols	SOX22
UniProt Protein Name	Transcription factor SOX-12
UniProt Synonym Protein Names	Protein SOX-22
Protein Family	Transcription factor
UniProt Gene Name	SOX12
UniProt Synonym Gene Names	SOX22
UniProt Entry Name	SOX12_HUMAN
NCBI Protein Information	transcription factor SOX-12
NCBI Summary for SOX12	Members of the SOX family of transcription factors are characterized by the presence of a DNA-binding high mobility group (HMG) domain, homologous to the HMG box of sex-determining region Y (SRY). Forming a subgroup of the HMG domain superfamily, SOX proteins have been implicated in cell fate decisions in a diverse range of developmental processes. SOX transcription factors have diverse tissue-specific expression patterns during early development and have been proposed to act as target-specific transcription factors and/or as chromatin structure regulatory elements. The protein encoded by this gene was identified as a SOX family member based on conserved domains, and its expression in various tissues suggests a role in both differentiation and maintenance of several cell types. [provided by RefSeq, Jan 2013]
UniProt Comments for SOX12	Function: Binds to the sequence 5'-AACAAT-3' By similarity. Subcellular location: Nucleus Ref.1. Tissue specificity: Expressed most abundantly in the CNS. Also expressed in fetal brain and kidney and adult heart, pancreas, testis and ovary. Other tissues were only weakly positive. Ref.1 Sequence similarities: Contains 1 HMG box DNA-binding domain. Sequence caution: The sequence AAB69627.1 differs from that shown. Reason: Frameshift at positions 135 and 201.
Research Articles on SOX12	**1.** Study findings suggested that miR744 inhibited migration and invasion of hepatocellular carcinoma (HCC) cells by targeting SOX12, and that it may represent a therapeutic target for the treatment of metastatic HCC.

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