

Mouse SOX9/SRY-box 9 Monoclonal Antibody | anti-SOX9 antibody

SOX9/SRY-box 9

CATALOG # AAA214818	HOST Mouse	REACTIVITY Human. Others not tested.	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

SOX9/SRY-box 9; Monoclonal Antibody; Campomelic Dysplasia Autosomal Sex Reversal (CMD1); SRA1; SRXX2; SRY (sex determining region Y) box 9; SRY related HMG box gene 9; Transcription factor SOX9; anti-SOX9 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not tested.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	SOX9/2398
Specificity	Sox genes comprise a family of genes that are related to the mammalian sex-determining gene SRY. These genes similarly contain sequences that encode for the HMG-box domain, which is responsible for the sequence-specific DNA-binding activity. Sox genes encode putative transcriptional regulators implicated in the decision of cell fates during development and the control of diverse developmental processes. SOX9 plays an important role in the normal skeletal development. It may regulate the expression of other genes involved in chondrogenesis by acting as a transcription factor for these genes.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
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.
Sequence Length	509
Applicable Applications for anti-SOX9 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant human SOX9 protein fragment (around aa 393-508) (exact sequence is proprietary)
Positive Control	HepG2 Cells. Pancreas
Cellular Localization	Nuclear
Chromosome Location	17q24.3
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.

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using SOX9 Mouse Monoclonal Antibody (SOX9/2398). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE

SDS-PAGE Analysis Purified SOX9 Mouse Monoclonal Antibody (SOX9/2398). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Pancreas stained with SOX9 Mouse Monoclonal Antibody (SOX9/2398).

ADDITIONAL INFORMATION

References	Zhu, H., et al. 2013. Upregulation of SOX9 in osteosarcoma and its association with tumor progression and patients prognosis. Diagn.Pathol. 8:183.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557853
NCBI GeneID	6662
NCBI Accession #	NP_000337.1
NCBI GenBank Nucleotide #	NM_000346.3
UniProt Accession #	P48436; Q53Y80
Molecular Weight	65kDa
NCBI Official Full Name	transcription factor SOX-9
NCBI Official Synonym Full Names	SRY-box 9
NCBI Official Symbol	SOX9
NCBI Official Synonym Symbols	CMD1; SRA1; CMPD1; SRXX2; SRXY10
NCBI Protein Information	transcription factor SOX-9
UniProt Protein Name	Transcription factor SOX-9
UniProt Gene Name	SOX9

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