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SOX9 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant SOX9.
Catalog # AT4001a

Product Information

Application	WB, IHC, IF, IP
Primary Accession	P48436
Other Accession	NM_000346
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3C10
Calculated MW	56137

Additional Information

Gene ID	6662
Other Names	Transcription factor SOX-9, SOX9
Target/Specificity	SOX9 (NP_000337, 400 a.a. ~ 509 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 IP~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	SOX9 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

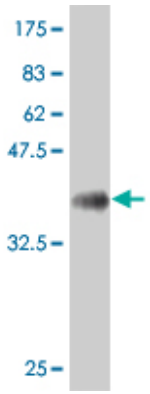
The protein encoded by this gene recognizes the sequence CCTTGAG along with other members of the HMG-box class DNA-binding proteins. It acts during chondrocyte differentiation and, with steroidogenic factor 1, regulates transcription of the anti-Muellerian hormone (AMH) gene. Deficiencies lead to the skeletal malformation syndrome campomelic dysplasia, frequently with sex reversal.

References

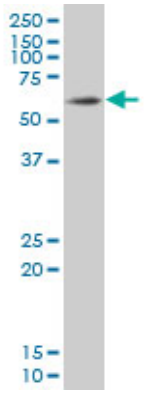
1.Expression of cancer stem cell markers is more frequent in anaplastic thyroid carcinoma compared to papillary thyroid carcinoma and is related to adverse clinical outcome.Yun JY, Kim YA, Choe JY, Min H, Lee KS, Jung Y, Oh S, Kim JEJ Clin Pathol. 2013 Aug 28. doi: 10.1136/jclinpath-2013-201711.2.Supra- and infratentorial

pediatric ependymomas differ significantly in NeuN, p75 and GFAP expression.Hagel C, Treszl A, Fehlert J, Harder J, von Haxthausen F, Kern M, von Bueren AO, Kordes UJ Neurooncol. 2013 Apr;112(2):191-7. doi: 10.1007/s11060-013-1062-1. Epub 2013 Jan 31.3.A Molecular Profile of Focal Segmental Glomerulosclerosis from Formalin-Fixed, Paraffin-Embedded Tissue.Hodgin JB, Borczuk AC, Nasr SH, Markowitz GS, Nair V, Martini S, Eichinger F, Vining C, Berthier CC, Kretzler M, D'Agati VD.Am J Pathol. 2010 Oct;177(4):1674-86. Epub 2010 Sep 16.

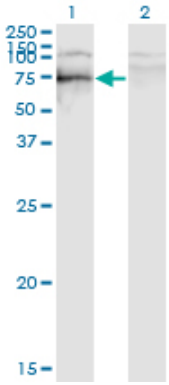
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .

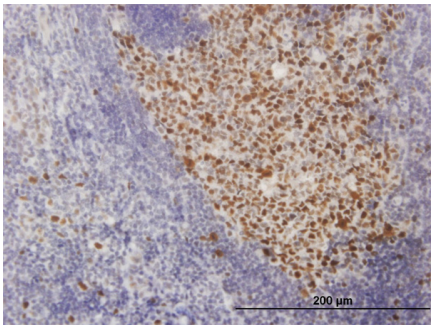


SOX9 monoclonal antibody (M02), clone 3C10 Western Blot analysis of SOX9 expression in HepG2 ((Cat # AT4001a)

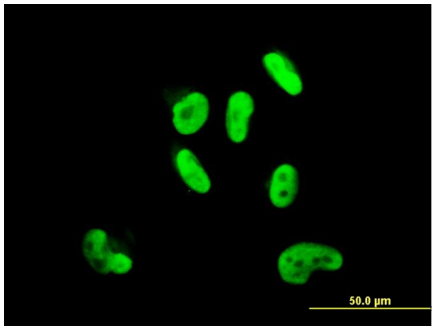


Western Blot analysis of SOX9 expression in transfected 293T cell line by SOX9 monoclonal antibody (M02), clone 3C10.

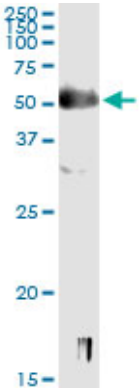
Lane 1: SOX9 transfected lysate(56.1 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to SOX9 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 0.7 ug/ml]



Immunofluorescence of monoclonal antibody to SOX9 on HepG2 cell. [antibody concentration 10 ug/ml]



Immunoprecipitation of SOX9 transfected lysate using anti-SOX9 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with SOX9 MaxPab rabbit polyclonal antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.