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SOX9 Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant SOX9.
Catalog # AT4002a

Product Information

Application	WB, IHC, IF
Primary Accession	P48436
Other Accession	NM_000346
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3F11
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
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) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

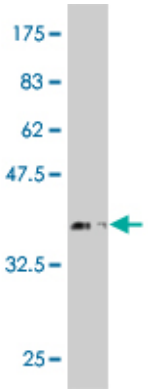
The protein encoded by this gene recognizes the sequence CCTTGAG along with other members of the HMG-box class DNA-binding proteins. It acts during chondrocyte differentiation and, with steroidogenic factor 1, regulates transcription of the anti-Muellerian hormone (AMH) gene. Deficiencies lead to the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

References

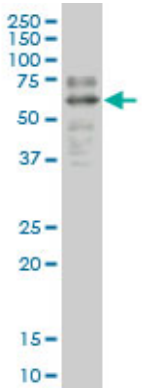
Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.Evaluation of candidate stromal epithelial cross-talk genes identifies association between risk of

serous ovarian cancer and TERT, a cancer susceptibility hot-spot. Johnatty SE, et al. PLoS Genet, 2010 Jul 8. PMID 20628624.SOX9, through interaction with microphthalmia-associated transcription factor (MITF) and OTX2, regulates BEST1 expression in the retinal pigment epithelium. Masuda T, et al. J Biol Chem, 2010 Aug 27. PMID 20530484.SOX9 elevation in the prostate promotes proliferation and cooperates with PTEN loss to drive tumor formation. Thomsen MK, et al. Cancer Res, 2010 Feb 1. PMID 20103652.Expression of Sox-9 in metastatic melanoma--a potential diagnostic pitfall. Rao P, et al. Am J Dermatopathol, 2010 May. PMID 20098296.

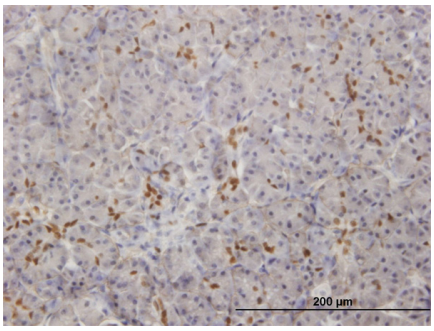
Images



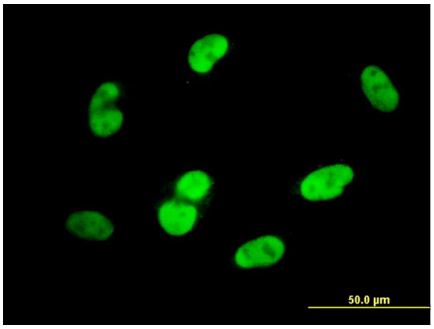
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



SOX9 monoclonal antibody (M04), clone 3F11 Western Blot analysis of SOX9 expression in HepG2 ((Cat # AT4002a)



Immunoperoxidase of monoclonal antibody to SOX9 on formalin-fixed paraffin-embedded human pancreas. [antibody concentration 1.5 ug/ml]



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