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SOX3 Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant SOX3.
Catalog # AT3997a

Product Information

Application	WB
Primary Accession	P41225
Other Accession	NM_005634
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1F2
Calculated MW	45210

Additional Information

Gene ID	6658
Other Names	Transcription factor SOX-3, SOX3
Target/Specificity	SOX3 (NP_005625, 375 a.a. ~ 446 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
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	SOX3 Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

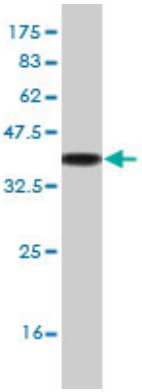
This gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional regulator after forming a protein complex with other proteins. Mutations in this gene have been associated with X-linked mental retardation with growth hormone deficiency.

References

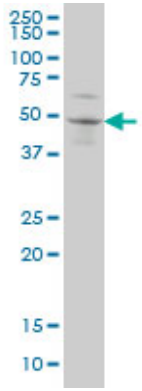
Mutation and gene copy number analyses of six pituitary transcription factor genes in 71 patients with combined pituitary hormone deficiency: identification of a single patient with LHX4 deletion. Dateki S, et al. J Clin Endocrinol Metab, 2010 Aug. PMID 20534763.The male-determining gene SRY is a hybrid of DGCR8 and

SOX3, and is regulated by the transcription factor CP2. Sato Y, et al. Mol Cell Biochem, 2010 Apr. PMID 19902333.PBX1 and MEIS1 up-regulate SOX3 gene expression by direct interaction with a consensus binding site within the basal promoter region. Mojsin M, et al. Biochem J, 2009 Dec 14. PMID 19799567.Brachymesomelic dysplasia with Peters anomaly of the eye results from disruptions of the X chromosome near the SHOX and SOX3 genes. Bleyl SB, et al. Am J Med Genet A, 2007 Dec 1. PMID 17994562.Regulation of SOX3 gene expression is driven by multiple NF-Y binding elements. Krstic A, et al. Arch Biochem Biophys, 2007 Nov 15. PMID 17910945.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33.92 KDa) .



SOX3 monoclonal antibody (M04), clone 1F2 Western Blot analysis of SOX3 expression in A-431 ((Cat # AT3997a)

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