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SOX3 Antibody (monoclonal) (M04)

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

Specification

SOX3 Antibody (monoclonal) (M04) - Product Information

Application	**WB**
Primary Accession	P41225
Other Accession	NM_005634
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**45210**

SOX3 Antibody (monoclonal) (M04) - 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.

SOX3 Antibody (monoclonal) (M04) - Protocols

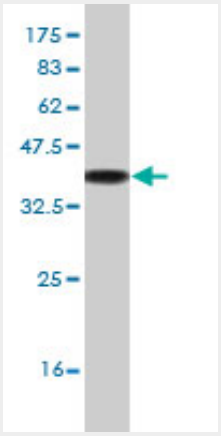
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

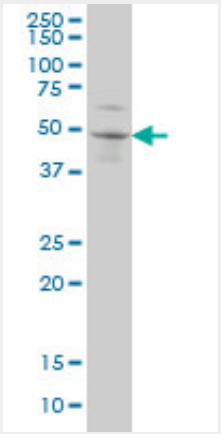
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- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SOX3 Antibody (monoclonal) (M04) - 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)

SOX3 Antibody (monoclonal) (M04) - 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.

SOX3 Antibody (monoclonal) (M04) - 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.