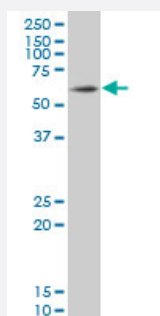


SOX9 monoclonal antibody (M02), clone 3C10

Catalog # H00006662-M02

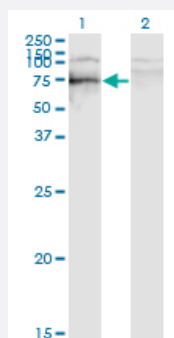
Size 100 ug

Applications



Western Blot (Cell lysate)

SOX9 monoclonal antibody (M02), clone 3C10 Western Blot analysis of SOX9 expression in HepG2 (Cat # L019V1).

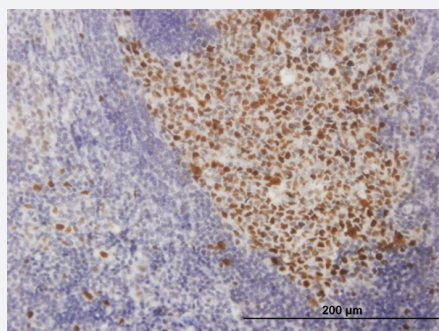


Western Blot (Transfected lysate)

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

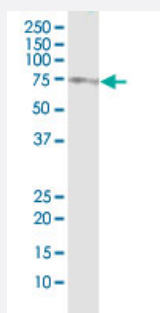
Lane 1: SOX9 transfected lysate(56.1 KDa).

Lane 2: Non-transfected lysate.



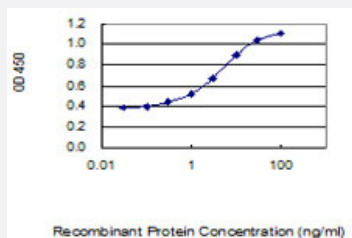
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



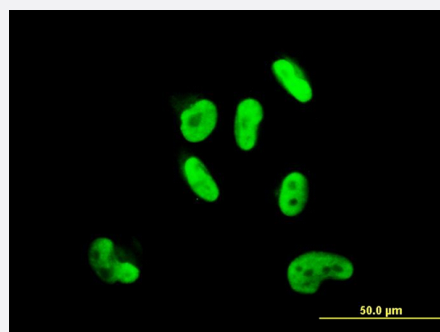
Immunoprecipitation

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



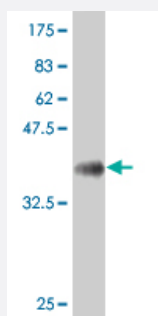
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SOX9 is 0.1 ng/ml as a capture antibody.



Immunofluorescence

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



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant SOX9.
Immunogen	SOX9 (NP_000337, 400 a.a. ~ 509 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	EQLSPSHYSEQQHQHSPQQIAYSPFNLPHYSYPPITRSQYDYTDHQNSSSYSHAAGQGTGLYST FTYMNPAQRPMYTPADTSGVPSIPQTHSPQHWEQPVYTQLTRP
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

SOX9 monoclonal antibody (M02), clone 3C10 Western Blot analysis of SOX9 expression in HepG2 (Cat # L019V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

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.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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

[Protocol Download](#)

- Immunoprecipitation

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

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SOX9 is 0.1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

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

Gene Info — SOX9

Entrez GeneID [6662](#)

GeneBank Accession# [NM_000346](#)

Protein Accession# [NP_000337](#)

Gene Name SOX9

Gene Alias CMD1, CMPD1, SRA1

Gene Description SRY (sex determining region Y)-box 9

Omim ID [114290 608160](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations SRY (sex determining region Y)-box 9 (campomelic dysplasia, autosomal sex-reversal)|SRY (sex-determining region Y)-box 9 (campomelic dysplasia, autosomal sex-reversal)|SRY (sex-determining region Y)-box 9 protein|campomelic dysplasia, autosomal sex-revers

Publication Reference

- [BAF complex maintains glioma stem cells in pediatric H3K27M-glioma.](#)

Eshini Panditharatna, Joana G Marques, Tingjian Wang, Maria C Trissal, Ilon Liu, Li Jiang, Alexander Beck, Andrew Groves, Neekesh V Dharia, Deyao Li, Samantha E Hoffman, Guillaume Kugener, McKenzie L Shaw, Hafsa M Mire, Olivia A Hack, Joshua M Dempster, Caleb Lareau, Lingling Dai, Logan H Sigua, Michael A Quezada, Ann-Catherine J Stanton, Meghan Wyatt, Zohra Kalani, Amy Goodale, Francisca Vazquez, Federica Piccioni, John G Doench, David E Root, Jamie N Anastas, Kristen L Jones, Amy Saur Conway,

Cancer Discovery 2022 Oct; CD21:1491.

Application: IF, Human, BT869 cells

- [SOX9+/PTF1A+ Cells Define the Tip Progenitor Cells of the Human Fetal Pancreas of the Second Trimester.](#)

Villani V, Thornton ME, Zook HN, Crook CJ, Grubbs BH, Orlando G, De Filippo R, Ku HT, Perin L.

Stem Cells Translational Medicine 2019 Dec; 8(12):1249.

Application: IHC-P, Human, Human fetal pancreas

- [The Influence of TGF- \$\beta\$ 3, EGF, and BGN on SOX9 and RUNX2 Expression in Human Chondrogenic Progenitor Cells.](#)

Janssen JN, Batschkus S, Schimmel S, Bode C, Schminke B, Miosge N.

The Journal of Histochemistry and Cytochemistry: Official Journal of the Histochemistry Society 2018 Nov; 22155418811645.

Application: WB, Human, Human chondrogenic progenitor cells

- [GLI1 promotes cancer stemness through intracellular signaling pathway PI3K/Akt/NF \$\kappa\$ B in colorectal adenocarcinoma.](#)

Yang Z, Zhang C, Qi W, Xuan Y, Cui Y.

Experimental Cell Research 2018 Dec; 373(1-2):145.

Application: IF, IHC-P, WB, Human, HCT-116, HT-29 cells, Human colorectal adenocarcinoma

- [In vitro osteogenic potential of human bone marrow derived MSCs is predicted by Runx2/Sox9 Ratio.](#)

Loebel C, Czekanska E, Bruderer M, Salzmann GM, Alini M PhD, Stoddart MJ.

Tissue Engineering. Part A 2015 Jan; 21(1-2):115.

Application: WB-Tr, Human, MSCs

- [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 JE.

Journal of Clinical Pathology 2014 Feb; 67(2):125.

Application: IHC, Human, Thyroid

- [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 U.

Journal of Neuro-Oncology 2013 Jan; 112(2):191.

Application: IHC-P, Human, Ependymomas

- [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.

The American Journal of Pathology 2010 Sep; 177(4):1674.

Application: IHC-P, Human, Human normal kidney

Disease

- [Cleft Lip](#)
- [Cleft Palate](#)
- [Genetic Predisposition to Disease](#)
- [Hypospadias](#)
- [Ovarian Neoplasms](#)
- [Sex determination](#)