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SOX7 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17335b

Specification

SOX7 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q9BT81
Other Accession	P40646, NP_113627.1
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**42197**
Antigen Region	**310-339**

SOX7 Antibody (C-term) - Additional Information

Gene ID 83595

Other Names
Transcription factor SOX-7, SOX7

Target/Specificity
This SOX7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 310-339 amino acids from the C-terminal region of human SOX7.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
SOX7 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SOX7 Antibody (C-term) - Protein Information

Name SOX7

Function Binds to and activates the CDH5 promoter, hence plays a role in the transcriptional regulation of genes expressed in the hemogenic endothelium and blocks further differentiation into blood precursors (By similarity). May be required for the survival of both hematopoietic and endothelial precursors during specification (By similarity). Competes with GATA4 for binding and activation of the FGF3 promoter (By similarity). Represses Wnt/beta-catenin-stimulated transcription, probably by targeting CTNNB1 to proteasomal degradation. Binds the DNA sequence 5'-AACAAT-3'.

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00267}. Cytoplasm

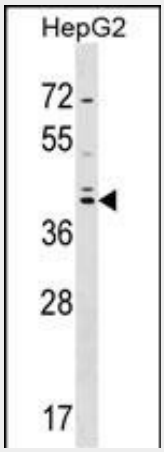
Tissue Location
Widely expressed in adult and fetal tissues. Present both in mesenchymal and epithelial cells in some adult tissues, including colon. Tends to be down-regulated in prostate adenocarcinomas and colorectal tumors due to promoter hypermethylation

SOX7 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SOX7 Antibody (C-term) - Images



SOX7 Antibody (C-term) (Cat. #AP17335b) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the SOX7 antibody detected the SOX7 protein (arrow).

SOX7 Antibody (C-term) - 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. The protein may play a role in tumorigenesis. A similar protein in mice is involved in the regulation of the wingless-type MMTV integration site family (Wnt) pathway.

SOX7 Antibody (C-term) - References

Zhang, Y., et al. Cancer Lett. 277(1):29-37(2009)
Semb, H. Cell Stem Cell 3(4):355-356(2008)
Guo, L., et al. Mol. Cancer Res. 6(9):1421-1430(2008)
Seguin, C.A., et al. Cell Stem Cell 3(2):182-195(2008)
Colland, F., et al. Genome Res. 14(7):1324-1332(2004)