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SOX7 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21090a

Product Information

Application	WB, E
Primary Accession	Q9BT81
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB51583
Calculated MW	42197

Additional Information

Gene ID	83595
Other Names	Transcription factor SOX-7, SOX7
Target/Specificity	This SOX7 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 224-258 amino acids from the Central 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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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

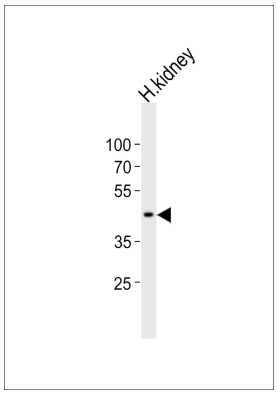
Background

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'.

References

Takash W.,et al.Nucleic Acids Res. 29:4274-4283(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Guo L.,et al.Mol. Cancer Res. 6:1421-1430(2008).

Images



Western blot analysis of lysate from human kidney tissue lysate, using SOX7 Antibody (Center)(Cat. #AP21090a). AP21090a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.