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# SOX7 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21090a

## Product Information

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

## Additional Information

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| **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

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| **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 |

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| | 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 |

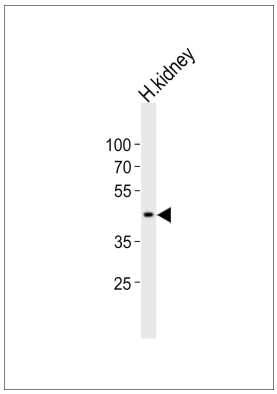
## Background

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.

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