

# Anti-SOX7 Antibody

Catalog # ABO11594

## Product Information

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|--------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                                                |
| <b>Primary Accession</b> | <a href="#">Q9BT81</a>                                                                                            |
| <b>Host</b>              | Rabbit                                                                                                            |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                                 |
| <b>Clonality</b>         | Polyclonal                                                                                                        |
| <b>Format</b>            | Lyophilized                                                                                                       |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Transcription factor SOX-7(SOX7) detection. Tested with WB in Human;Mouse;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                              |

## Additional Information

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| <b>Gene ID</b>                  | 83595                                                                                                                                                                                                                                                  |
| <b>Other Names</b>              | Transcription factor SOX-7, SOX7                                                                                                                                                                                                                       |
| <b>Calculated MW</b>            | 42197                                                                                                                                                                                                                                                  |
| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat                                                                                                                                                                                                         |
| <b>Subcellular Localization</b> | Nucleus . Cytoplasm .                                                                                                                                                                                                                                  |
| <b>Tissue Specificity</b>       | 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. . |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                                                              |
| <b>Protein Name</b>             | Transcription factor SOX-7                                                                                                                                                                                                                             |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .                                                                                                                          |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the C-terminus of human SOX7(370-388aa LISVLADATATYYNSYSVS), identical to the related mouse and rat sequences.                                                                                      |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                                                                           |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                                                                                                |

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|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>               | At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing. |
| <b>Sequence Similarities</b> | Contains 1 HMG box DNA-binding domain.                                                                                                                                                |

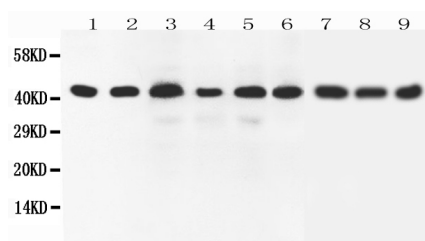
## Protein Information

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|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | SOX7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Function</b>          | 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'-AACAAAT-3'. |
| <b>Cellular Location</b> | Nucleus {ECO:0000255   PROSITE-ProRule:PRU00267}. Cytoplasm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Tissue Location</b>   | 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

SOX7 belongs to SOX gene family and SOX proteins are transcription factors with critical roles in the regulation of diverse developmental processes. This gene is mapped to 8p23.1. SOX7 gene contains at least 2 exons. In cotransfected 293 cells, Sox7 reduced Wnt(see WNT1)/beta-catenin(see CTNNB1)- stimulated transcription. SOX7 is a potent activator of FGF3 transcription. It not only plays a role in the transcriptional regulation of genes expressed in the hemogenic endothelium but also blocks further differentiation into blood precursors. And it may be required for the survival of both hematopoietic and endothelial precursors during specification.

## Images



Anti-SOX7 antibody, ABO11594, All Western blotting  
 All lanes: Anti-SOX7(ABO11594) at 0.5ug/ml  
 Lane 1: Rat Brain Tissue Lysate at 40ug  
 Lane 2: Human Placenta Tissue Lysate at 40ug  
 Lane 3: Rat Lung Tissue Lysate at 40ug  
 Lane 4: Rat Testis Tissue Lysate at 40ug  
 Lane 5: HELA Whole Cell Lysate at 40ug  
 Lane 6: A549 Whole Cell Lysate at 40ug  
 Lane 7: HEPG2 Whole Cell Lysate at 40ug  
 Lane 8: SMMC Whole Cell Lysate at 40ug  
 Lane 9: NEURO Whole Cell Lysate at 40ug  
 Predicted bind size: 42KD  
 Observed bind size: 42KD

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