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antibody and ELISA experts

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# Anti-SOX5 Antibody Picoband™

**Catalog Number:** PB9507

## About SOX5

Transcription factor SOX-5 is a protein that in humans is encoded by the SOX5 gene. It is located on 12p12.1. 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. In addition, the encoded protein may play a role in chondrogenesis. A pseudogene of this gene is located on chromosome 8. Multiple transcript variants encoding distinct isoforms have been identified for this gene.

## Overview

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| Product Name | Anti-SOX5 Antibody Picoband™ |
| Reactive Species | Human, Mouse, Pig, Rat |
| Description | Boster Bio Anti-SOX5 Antibody Picoband™ catalog # PB9507. Tested in WB applications. This antibody reacts with Human, Mouse, Pig, Rat. |
| Application | WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3. |
| Storage Instructions | Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | P35711 |

## Technical Details

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| Immunogen | A synthetic peptide corresponding to a sequence at the C-terminus of human SOX5, different from the related mouse sequence by two amino acids. |
| Predicted Reactive Species | Bovine |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot. |
| Cross Reactivity | No cross-reactivity with other proteins |
| Isotype | Rabbit IgG |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |

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| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.<br>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.<br>Some PubMed article(s) citing the expression level of this target are as follows:<br>Boster Bio's internal QC testing used:<br>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat, Pig |

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# Anti-SOX5 Antibody Picoband™ (PB9507) Images

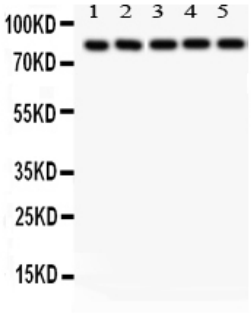


Figure 1. Western blot analysis of SOX5 using anti-SOX5 antibody (PB9507).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.
Lane 1: Rat Liver Tissue Lysate at 50ug,
Lane 2: Rat Testis Tissue Lysate at 50ug,
Lane 3: Rat Brain Tissue Lysate at 50ug,
Lane 4: HELA Whole Cell Lysate at 40ug,
Lane 5: A549 Whole Cell Lysate at 40ug.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SOX5 antigen affinity purified polyclonal antibody (Catalog # PB9507) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for SOX5 at approximately 84 kDa. The expected band size for SOX5 is at 84 kDa.

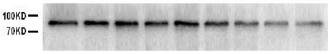


**Figure 2. Western blot analysis of SOX5 using anti-SOX5 antibody (PB9507).**
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 40ug of sample under reducing conditions.
All lanes: pig adipose cells
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SOX5 antigen affinity purified polyclonal antibody (Catalog # PB9507) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for SOX5 at approximately 84KD. The expected band size for SOX5 is at 84KD.

Figure 3. Western blot analysis of SOX5 using anti-SOX5 antibody (PB9507).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: mouse spleen tissue lysate,
Lane 2: mouse thymus tissue lysate.
After Electrophoresis, proteins were transferred to a

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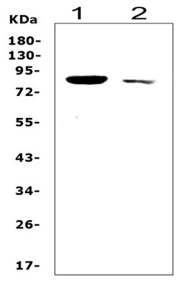


Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SOX5 antigen affinity purified polyclonal antibody (Catalog # PB9507) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for SOX5 at approximately 84KD. The expected band size for SOX5 is at 84KD.



Anti-SOX5 Antibody ™