

Anti-Nkx2.5/NKX2-5 Antibody Picoband®

Catalog Number: PB9293

About NKX2-5

Homeobox protein Nkx-2.5, also known as NKX2E or CSX is a protein that in humans is encoded by the NKX2-5 gene. It is mapped to 5q35.1. Homeobox-containing genes play critical roles in regulating tissue-specific gene expression essential for tissue differentiation, as well as determining the temporal and spatial patterns of development. Nkx2.5 and Tbx5 directly bound to the promoter of the gene encoding cardiac-specific natriuretic peptide precursor type A (NPPA) in tandem, and both transcription factors showed synergistic activation. The cardiac homeobox protein Nkx2.5 is essential in cardiac development, and mutations in CSX (which encodes Nkx2.5) cause various congenital heart malformations.

Overview

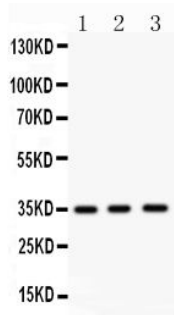
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| Product Name | Anti-Nkx2.5/NKX2-5 Antibody Picoband® |
| Reactive Species | Human, Mouse |
| Description | Boster Bio Anti-Nkx2.5/NKX2-5 Antibody Picoband® catalog # PB9293. Tested in WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application | WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ . |
| 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 | P52952 |

Technical Details

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| Immunogen | A synthetic peptide corresponding to a sequence in the middle region of human Nkx2.5, different from the related mouse and rat sequences by five amino acids. |
| 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 |

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|---------------------|---|
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.1-0.5ug/ml, Human, Mouse |

Anti-Nkx2.5/NKX2-5 Antibody Picoband® (PB9293) Images



Anti-NKX2 Picoband antibody, PB9293, Western blotting
All lanes: Anti NKX2 (PB9293) at 0.5ug/ml
Lane 1: Mouse Spleen Tissue Lysate at 50ug
Lane 2: Mouse Cardiac Muscle Tissue Lysate at 50ug
Lane 3: HELA Whole Cell Lysate at 40ug
Predicted bind size: 35KD
Observed bind size: 35KD

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Anti-Nkx2.5/NKX2-5 Antibody

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