



Product datasheet

Anti-Nkx2.5 antibody ab106923

★★★★☆ [4 Abreviews](#) [6 References](#) [3 Images](#)

Overview

Product name	Anti-Nkx2.5 antibody
Description	Goat polyclonal to Nkx2.5
Host species	Goat
Specificity	ab106923 is expected to recognize all three reported isoforms (NP_004378.1; NP_001159647.1; NP_001159648.1).
Tested applications	Suitable for: WB, ICC, IHC-P
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide within Human Nkx2.5 aa 50-150 (internal sequence). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. <div>  Run BLAST with  Run BLAST with </div>
Positive control	WB: Mouse heart lysate; ICC: U-2 OS cells. IHC: Human heart.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	ab106923 was purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Clonality	Polyclonal
Isotype	IgG

Applications

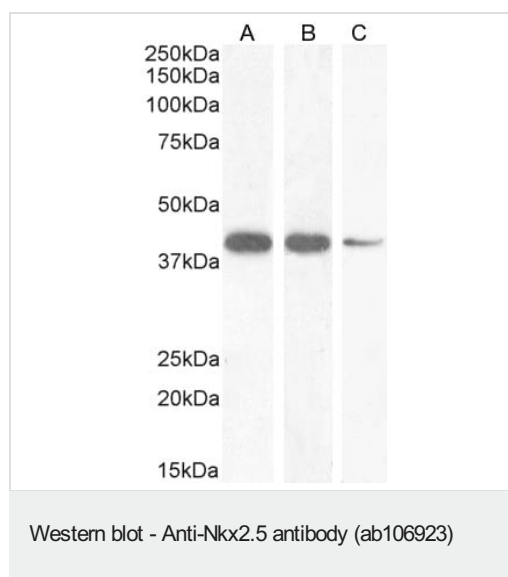
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab106923 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 45 kDa (predicted molecular weight: 35 kDa). A 1 hour primary incubation is recommended for this product. Abcam recommends using 3% milk as the blocking agent.
ICC		Use a concentration of 10 µg/ml.
IHC-P		Use a concentration of 4 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Only suitable for human, not mouse samples.

Target

Function	Implicated in commitment to and/or differentiation of the myocardial lineage. Acts as a transcriptional activator of ANF in cooperation with GATA4 (By similarity). It is transcriptionally controlled by PBX1 and acts as a transcriptional repressor of CDKN2B (By similarity). It is required for spleen development.
Tissue specificity	Expressed only in the heart.
Involvement in disease	Atrial septal defect 7, with or without atrioventricular conduction defects Tetralogy of Fallot Conotruncal heart malformations Hypothyroidism, congenital, non-goitrous, 5 Ventricular septal defect 3 Hypoplastic left heart syndrome 2 Asplenia, isolated congenital
Sequence similarities	Belongs to the NK-2 homeobox family. Contains 1 homeobox DNA-binding domain.
Cellular localization	Nucleus.

Images



All lanes : Anti-Nkx2.5 antibody (ab106923) at 1 µg/ml

Lane 1 : Human heart lysate in RIPA buffer

Lane 2 : Mouse heart lysate in RIPA buffer

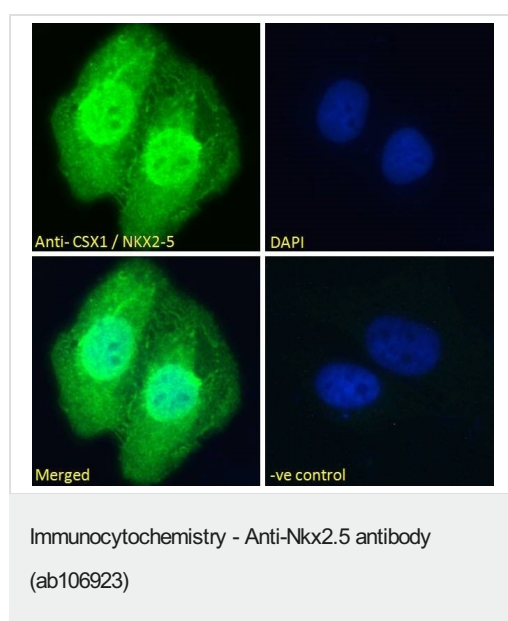
Lane 3 : Rat heart lysate in RIPA buffer

Lysates/proteins at 35 µg per lane.

Predicted band size: 35 kDa

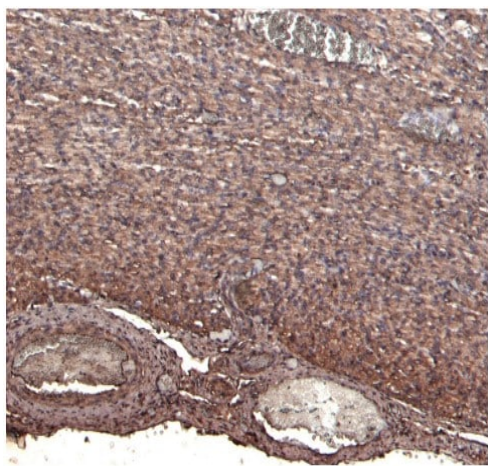
Observed band size: 45 kDa

Detected by chemiluminescence.



Immunocytochemistry analysis of paraformaldehyde fixed U-2 OS (human bone osteosarcoma epithelial cell line) cells, permeabilized with 0.15% Triton. Primary incubation for 1 hour at 10 µg/mL followed by Alexa Fluor® 488 secondary antibody at 2 µg/mL. The nuclear stain is DAPI (blue).

Negative control: Unimmunized goat IgG (10 µg/mL) followed by Alexa Fluor® 488 secondary antibody (2 µg/mL).



Immunohistochemical analysis of human heart tissue stained for Nkx2.5 using ab106923 at 4µg/ml. Positive cytoplasmic staining shown.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nkx2.5 antibody (ab106923)

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