

Datasheet for ABIN2856166
anti-NK2 Homeobox 5 antibody

3 Images

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Overview

Quantity:	100 µL
Target:	NK2 Homeobox 5 (NKX2-5)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NK2 Homeobox 5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Nkx2.5. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to Nkx2.5 (NK2 transcription factor related, locus 5 (Drosophila)) Nkx2.5 antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	NK2 Homeobox 5 (NKX2-5)
Alternative Name:	NK2 homeobox 5 (NKX2-5 Products)

Target Details

Background: 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 (Shiojima et al., 1995 [PubMed 7665173]). It has been demonstrated that a *Drosophila* homeobox-containing gene called 'tinman' is expressed in the developing dorsal vessel and in the equivalent of the vertebrate heart. Mutations in tinman result in loss of heart formation in the embryo, suggesting that tinman is essential for *Drosophila* heart formation. Furthermore, abundant expression of Csx, the presumptive mouse homolog of tinman, is observed only in the heart from the time of cardiac differentiation. CSX, the human homolog of murine Csx, has a homeodomain sequence identical to that of Csx and is expressed only in the heart, again suggesting that CSX plays an important role in human heart formation.[supplied by OMIM]

Cellular Localization: Nucleus

Molecular Weight: 35 kDa

Gene ID: 1482

UniProt: [P52952](#)

Pathways: [Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development](#)

Application Details

Application Notes: WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.

Comment: Validation: Comparison

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.21 mg/mL

Buffer: 1XPBS, 20 % Glycerol (pH 7), 0.025 % ProClin 300

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

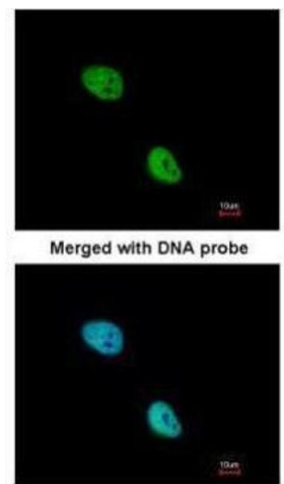
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images



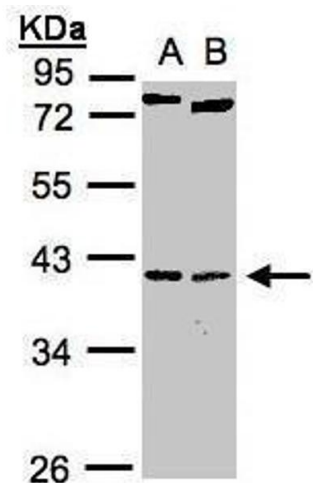
Immunofluorescence

Image 1. ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed mouse ESC D3, using Nkx2.5, antibody at 1:200 dilution.



Immunofluorescence

Image 2. ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using NKX2-5, antibody at 1:200 dilution.



Western Blotting

Image 3. WB Image Sample(30 ug whole cell lysate) A:H1299 B:Raji , 10% SDS PAGE antibody diluted at 1:1000