

Datasheet for ABIN2779388
anti-NK2 Homeobox 5 antibody (N-Term)

3 Images

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	NK2 Homeobox 5 (NKX2-5)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Rabbit, Guinea Pig, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NK2 Homeobox 5 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the n terminal region of human Nkx2-5
Sequence:	ELGRAPSPAK CASAFPAAPA FYPRAYSDPD PAKDPRAEKK ELCALQKAVE
Predicted Reactivity:	Cow: 85%, Dog: 85%, Guinea Pig: 92%, Horse: 77%, Human: 100%, Mouse: 92%, Rabbit: 77%, Rat: 92%
Characteristics:	This is a rabbit polyclonal antibody against NKX2-5. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	NK2 Homeobox 5 (NKX2-5)
---------	-------------------------

Target Details

Alternative Name: Nkx2-5 ([NKX2-5 Products](#))

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. 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. 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]. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. PRIMARYREFSEQ_SPAN PRIMARY_IDENTIFIER PRIMARY_SPAN COMP 1-1211 U34962.1 1-1211 1212-1585 BC025711.1 1143-1516

Alias Symbols: CSX, CSX1, NKX2.5, NKX2E, NKX4-1, VSD3, CHNG5, HLHS2

Protein Interaction Partner: JARID2, GATA4, KDM6A, SMAD4, CAMTA2, TLE1, HDAC1, ID3, ID2, ID1, HIPK1, HIPK2, FOXH1, TBX5, TBX2, SRF, CSNK2A1,

Protein Size: 324

Molecular Weight: 35 kDa

Gene ID: 1482

NCBI Accession: [NM_004387](#), [NP_004378](#)

UniProt: [P52952](#)

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

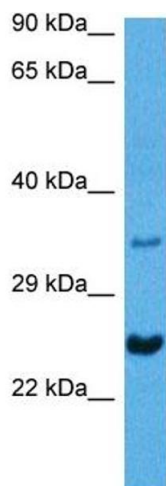
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 324 AA
Restrictions:	For Research Use only

Handling

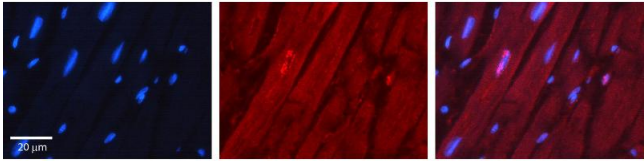
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



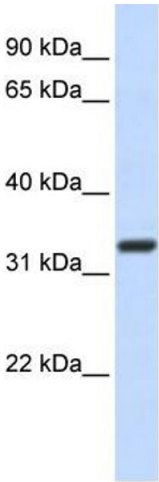
Western Blotting

Image 1. Host: Mouse Target Name: NKX2-5 Sample
Tissue: Mouse Heart Antibody Dilution: 1ug/ml



Immunohistochemistry

Image 2. Rabbit Anti-NKX2-5 Antibody Catalog Number: ARP31575_P050 Formalin Fixed Paraffin Embedded Tissue: Human Heart Muscle Tissue Observed Staining: Nucleus Primary Antibody Concentration: 1:100 Other Working Concentrations: 1:600 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec



Western Blotting

Image 3. WB Suggested Anti-Nkx2-5 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: MCF7 cell lysate