

For Research Use Only

# NKX2-5 Polyclonal antibody

Catalog Number: 13921-1-AP

Featured Product

13 Publications



## Basic Information

### Catalog Number:

13921-1-AP

### Size:

500 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4930

### GenBank Accession Number:

BC025711

### GeneID (NCBI):

1482

### UNIPROT ID:

P52952

### Full Name:

NK2 transcription factor related, locus 5 (Drosophila)

### Calculated MW:

324 aa, 35 kDa

### Observed MW:

30-42 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

IF-P 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : human heart tissue,

IHC : human brain tissue, mouse heart tissue

IF-P : mouse embryo tissue,

## Background Information

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 [PMID: 7665173]. NKX2-5 encoded by homeobox-containing genes that implicated in commitment to and/or differentiation of the myocardial lineage, and acts as a transcriptional activator of ANF in cooperation with GATA4. During embryonic development, NKX2-5 plays pivotal roles in specifying cardiac progenitors, cardiac morphogenesis, cardiomyocyte differentiation and conduction system development [PMID: 22824467].

## Notable Publications

Author	Pubmed ID	Journal	Application
Heng Zhang	36199421	Oxid Med Cell Longev	WB
Junwei Nie	26489465	Cell Rep	WB
Guangrui Lai	33035436	Am J Physiol Heart Circ Physiol	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

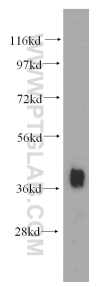
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

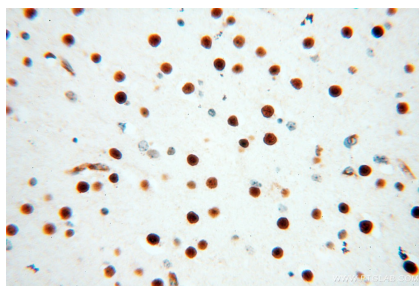
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

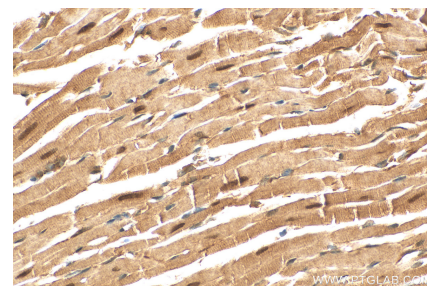
## Selected Validation Data



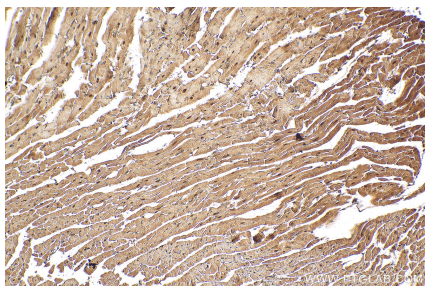
human heart tissue were subjected to SDS PAGE followed by western blot with 13921-1-AP (NKX2-5 antibody) at dilution of 1:1200 incubated at room temperature for 1.5 hours.



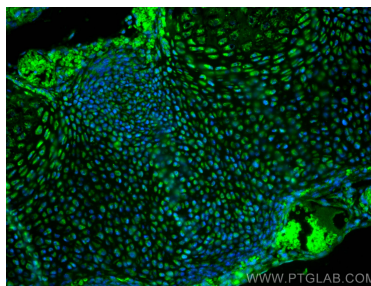
Immunohistochemical analysis of paraffin-embedded human brain using 13921-1-AP (NKX2-5 antibody) at dilution of 1:100 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 13921-1-AP (NKX2-5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 13921-1-AP (NKX2-5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse embryo tissue using NKX2-5 antibody (13921-1-AP) at dilution of 1:200 and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).