

For Research Use Only

NKX2-5 Polyclonal antibody

Catalog Number: 13921-1-AP

Featured Product

13 Publications



Basic Information

Catalog Number: 13921-1-AP	GenBank Accession Number: BC025711	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 260 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1482	Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: NK2 transcription factor related, locus 5 (Drosophila)	
Isotype: IgG	Calculated MW: 324 aa, 35 kDa	
Immunogen Catalog Number: AG4930	Observed MW: 30-42 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, WB

Species Specificity:

human, mouse

Cited Species:

human, rat, mouse

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 : 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

*** 20ul sizes contain 0.1% BSA

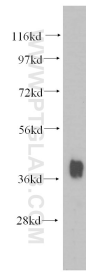
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

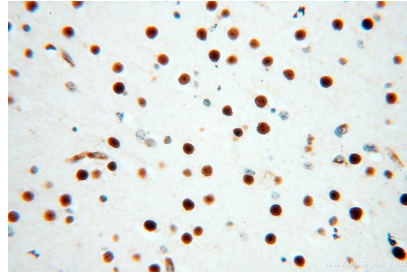
E: proteintech@ptglab.com
W: ptglab.com

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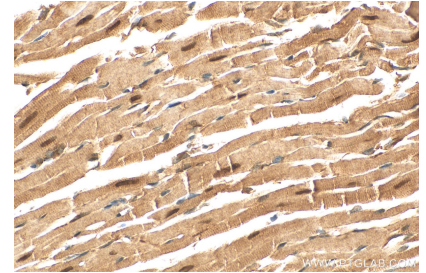
Selected Validation Data



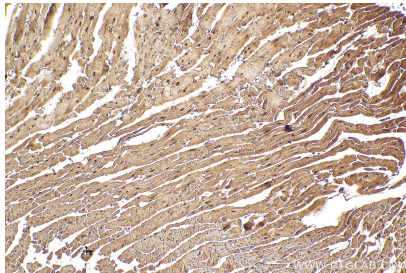
human heart tissue were subjected to SDS PAGE followed by western blot with 13921-1-AP (NKX2-5 antibody) at dilution of 1:1200 incubated at room temperature for 1.5 hours.



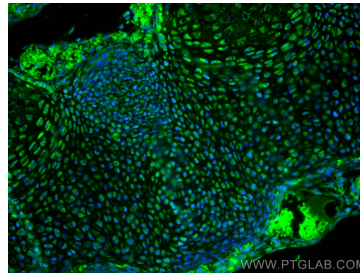
Immunohistochemical analysis of paraffin-embedded human brain using 13921-1-AP (NKX2-5 antibody) at dilution of 1:100 (under 40x lens).



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 AffiniPure Goat Anti-Rabbit IgG(H+L).