NKX2-5 antibody

Catalog No: #22771

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	NKX2-5 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Purified by antigen-affinity chromatography.
Applications	WB IF
Species Reactivity	Hu
Immunogen Type	Recombinant protein
Immunogen Description	Recombinant protein fragment contain a sequence corresponding to a region within amino acids 1 and 188 of NKX2-5
Target Name	NKX2-5
Other Names	CSX; CSX1; NKX2.5; NKX2E; NKX4-1
Accession No.	Swiss-Prot:P52952Gene ID:1482
Uniprot	P52952
GeneID	1482;
Concentration	1.7mg/ml
Formulation	Supplied in 0.1M Tris-buffered saline with 10% Glycerol (pH7.0). 0.01% Thimerosal was added as a preservative.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

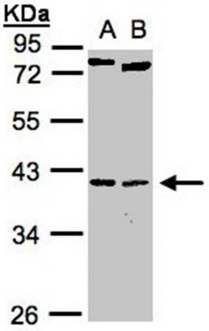
Application Details

Predicted MW: 35kd

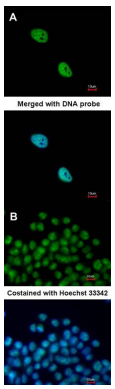
Western blotting: 1:500-1:3000

Immunofluorescence: 1:100-1:200

Images



Sample(30 ug whole cell lysate)
A: H1299
B: Raji
10% SDS PAGE
Primary antibody diluted at 1: 1000



A:Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using NKX2-5 antibody at 1: 200 dilution.
B:Immunofluorescence analysis of paraformaldehyde-fixed mouse ESC D3, using Nkx2.5 antibody at 1: 200 dilution.

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]

Note: This product is for in vitro research use only