

## Product datasheet for **TA305653**

### **Nkx2.5 (NKX2-5) Goat Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IF, WB
<b>Recommended Dilution:</b>	WB: 0.3-1ug/ml.
<b>Reactivity:</b>	Human, Mouse, Rat (Expected from sequence similarity: Cow, Dog)
<b>Host:</b>	Goat
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Peptide with sequence C-PRAYSDPDPKDPK, from the internal region of the protein sequence according to NP_004378.1; NP_001159647.1; NP_001159648.1.
<b>Formulation:</b>	0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20C. Minimize freezing and thawing.
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Gene Name:</b>	NK2 homeobox 5
<b>Database Link:</b>	<a href="#">NP_001159647</a> <a href="#">Entrez Gene 18091 Mouse</a> <a href="#">Entrez Gene 114109 Rat</a> <a href="#">Entrez Gene 489113 Dog</a> <a href="#">Entrez Gene 1482 Human</a> <a href="#">P52952</a>



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**Background:**

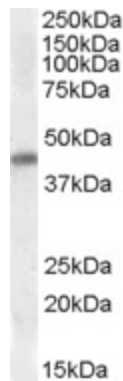
Homeobox-containing genes play critical roles in regulating tissue-specific gene expression essential for tissue differentiation, as well as determining the temporal and spatial patterns of development (Shiojima et al., 1995 [PubMed 7665173]). It has been demonstrated that a *Drosophila* homeobox-containing 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]

**Synonyms:**

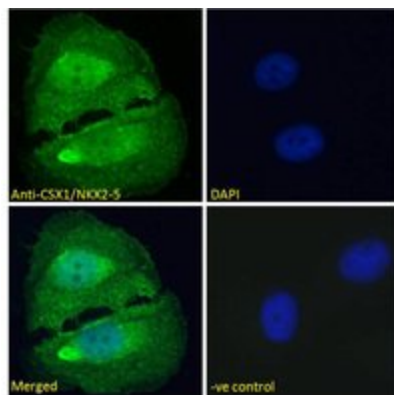
CHNG5; CSX; CSX1; HLHS2; NKX2.5; NKX2E; NKX4-1; VSD3

**Protein Families:**

Transcription Factors

**Product images:**


TA305653 (0.3ug/ml) staining of Human Heart lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



TA305653 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (5ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (5ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).