

Product datasheet for **TA329339**

Nkx2.5 (NKX2-5) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-Nkx2-5 antibody: synthetic peptide directed towards the n terminal of human Nkx2-5. Synthetic peptide located within the following region: ELGRAPSPAKCASAFPAAPAFYPRAYSDPDKPAKDPRAEKKELCALQKAVE
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	35 kDa
Gene Name:	NK2 homeobox 5
Database Link:	NP_004378 Entrez Gene 18091 Mouse Entrez Gene 1482 Human P52952



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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. 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

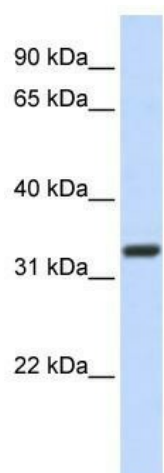
Synonyms:

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

Note: Immunogen sequence homology: Human: 100%; Pig: 92%; Rat: 92%; Mouse: 92%; Guinea pig: 92%; Dog: 85%; Bovine: 85%; Horse: 77%; Rabbit: 77%

Protein Families:

Transcription Factors

Product images:

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