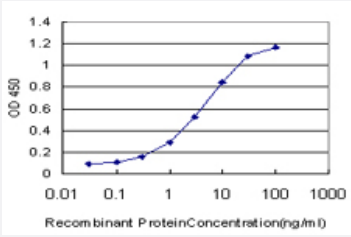
NKX2-5 monoclonal antibody (M02), clone S1

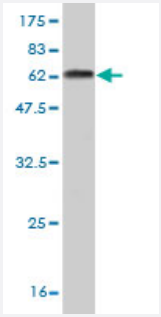
Catalog # H00001482-M02 Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged NKX2-5 is approximately 0.1ng/ml as a capture antibody.



Western Blot detection against Immunogen (61.38 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant NKX2-5.
Immunogen	NKX2-5 (AAH25711, 1 a.a. ~ 324 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MFPSPALTPTPFSVKDILNLEQQQRSLAAAGELSARLEATLAPSSCMLAAFKPEAYAGPEAAAPG LPELRAELGRAPSPAKCASAFPAAPAFYPRAYSDPDPAKDPRAEKKELCALQKAVELEKTEADN AERPRARRRRKPRVLFSQAQVYELERRFKQQRYLSAPERDQLASVLKLTSTQVKIWFQNRRYKC KRQRQDQTLELVGLPPPPPPPPARRIAVPVLVRDGKPCLGDSAPYAPAYGVGLNPYGYNAYPAYP GYGGAACSPGYSCTAAYPAGPSPAQPATAAANNNFVNFGVGDLNAVQSPGIPQSNSGVSTLHGI RAW
Host	Mouse

Reactivity	Human
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (61.38 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged NKX2-5 is approximately 0.1ng/ml as a capture antibody.

  Protocol Download

- ELISA

Gene Info — NKX2-5

Entrez GeneID	1482
GeneBank Accession#	BC025711
Protein Accession#	AAH25711
Gene Name	NKX2-5
Gene Alias	CHNG5, CSX, CSX1, NKX2.5, NKX2E, NKX4-1
Gene Description	NK2 transcription factor related, locus 5 (Drosophila)
Omim ID	108900 187500 600584
Gene Ontology	Hyperlink

Gene Summary	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
Other Designations	NK2 transcription factor homolog E|NK2 transcription factor related, locus 5|cardiac-specific homeo box|tinman paralog

Disease

- Alagille Syndrome
- Arthritis
- Atrial Fibrillation
- Cardiovascular Diseases
- Chromosome Deletion
- Congenital Hypothyroidism
- Diabetes Mellitus
- Down Syndrome
- Ductus Arteriosus
- Ebstein Anomaly
- Edema
- Genetic Predisposition to Disease
- Graves Disease
- Hand Deformities
- Heart Block
- Heart Defects
- Heart Septal Defects

- Hypoplastic Left Heart Syndrome
- Lupus Erythematosus
- Tetralogy of Fallot