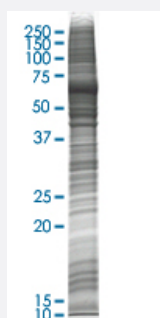


NKX2-5 HEK293 Cell Transient Overexpression Lysate(Non-Denatured)

Catalog # L004T6

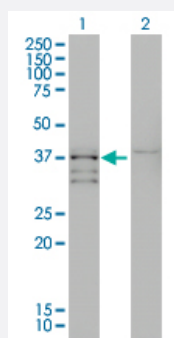
Size 100 ug

Applications



SDS-PAGE Gel

NKX2-5 transfected lysate



Western Blot

Lane 1: NKX2-5 transfected lysate (34.92 KDa).

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line HEK293

Plasmid pCMV-NKX2-5 full length

Host Human

Theoretical MW (kDa) 34.92

Lysis Buffer Modified RIPA Lysis Buffer:50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF.

Concentration 2 mg/ml

Quality Control Testing

Transient overexpression cell lysate was tested with Anti-NKX2-5 antibody ([H00001482-M03](#)) by Western Blots.
SDS-PAGE Gel
NKX2-5 transfected lysate
Western Blot
Lane 1: NKX2-5 transfected lysate (34.92 KDa).
Lane 2: Non-transfected lysate.

Recommend Usage

Use it directly for immuno-precipitation, or heat lysate with SDS gel loading buffer to 95°C for 5 minutes followed by rapid cooling for western blot application. If dissociating conditions are required, add reducing agent prior to heating.

Storage Buffer

In modified RIPA Lysis Buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunoprecipitation

[Protocol Download](#)

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 homeobox|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](#)