



Nkx-2.3 (h): 293T Lysate: sc-114197

BACKGROUND

Nkx homeodomain proteins are members of a large family of vertebrate transcription factors that have a strong homology to the NK genes in *Drosophila*. Nkx proteins are involved in several aspects of cell type specification and maintenance of differentiated tissue functions. Nkx-2.3 contains a homeobox, a conserved NK2 domain, a C-terminal GIRAW motif and an N-terminal homology domain that is conserved among all NK2 genes. Expression of Nkx-2.3 is activated later in differentiated myocardial cells and the protein is primarily detected in gut mesoderm, distinct regions of the brachial arches, the tongue epithelium and some domains in the developing jaws. Nkx-2.3 is necessary to function as a transcriptional activator during the earliest stages of heart formation. Overexpression of Nkx-2.3 leads to an enlarged heart due to a thickening of the myocardium caused by an increase in the overall number of myocardial cells.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NKX2-3 (human) mapping to 10q24.2.

PRODUCT

Nkx-2.3 (h): 293T Lysate represents a lysate of human Nkx-2.3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Nkx-2.3 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Nkx-2.3 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.