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Cardiotrophin-1 (h2): 293T Lysate: sc-116959

BACKGROUND

Cardiotrophin-1 (CT-1) is a member of the IL-6 family of cytokines, which signal through gp130 receptor complexes. gp130 complexes with several different receptor subunits to transmit signals from Cardiotrophin-1, IL-6, LIF, OSM, CNTF and IL-11. Cardiotrophin-1 binds to and activates the leukemia inhibitory factor (LIF) receptor/gp130 receptor complex and has been shown to induce hypertrophy in cardiac myocytes *in vitro*. Cardiotrophin-1, a secreted protein expressed at high levels in myocardium during cardiogenesis, has been shown to promote proliferation and survival of embryonic cardiomyocytes, suggesting a role for Cardiotrophin-1 in the activation of gp130 during cardiac development. Cardiotrophin-1 is highly expressed in heart, prostate, ovary and skeletal muscle. Lower levels of expression are seen in lung, kidney, pancreas, thymus, testis and small intestine.

REFERENCES

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- Wollert, K.C. and Chien, K.R. 1997. Cardiotrophin-1 and the role of gp130-dependent signaling pathways in cardiac growth and development. *J. Mol. Med.* 75: 492-501.
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CHROMOSOMAL LOCATION

Genetic locus: CTF1 (human) mapping to 16p11.2.

PRODUCT

Cardiotrophin-1 (h2): 293T Lysate represents a lysate of human Cardiotrophin-1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

APPLICATIONS

Cardiotrophin-1 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Cardiotrophin-1 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.

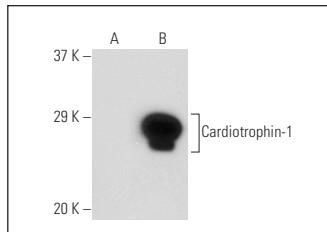
Cardiotrophin-1 (AN-B3): sc-9991 is recommended as a positive control antibody for Western Blot analysis of enhanced human Cardiotrophin-1 expression in Cardiotrophin-1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

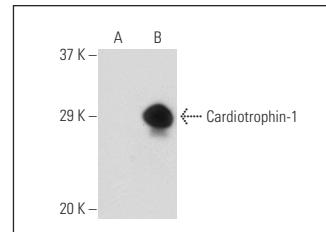
To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG_x BP-HRP: sc-516102 or m-IgG_x BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Cardiotrophin-1 (AN-B3): sc-9991. Western blot analysis of Cardiotrophin-1 expression in non-transfected: sc-117752 (**A**) and human Cardiotrophin-1 transfected: sc-116959 (**B**) 293T whole cell lysates.



Cardiotrophin-1 (4916): sc-73763. Western blot analysis of Cardiotrophin-1 expression in non-transfected: sc-117752 (**A**) and human Cardiotrophin-1 transfected: sc-116959 (**B**) 293T whole cell lysates.

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.