

HoxC13 (h): 293T Lysate: sc-111609

BACKGROUND

The Hox proteins are a family of transcription factors that play a role in development and cellular differentiation by regulating downstream target genes. Specifically, the Hox proteins direct DNA-protein and protein-protein interactions that assist in determining the morphologic features associated with the anterior-posterior body axis. Hox proteins are involved in controlling axial patterning, leukemias and hereditary malformations. HoxC13 (homeobox C13), also known as HOX3 or HOX3G, is a 330 amino acid protein that contains one homeobox DNA-binding domain and is a member of the Abd-B homeobox family. Localized to the nucleus, HoxC13 functions as a sequence-specific transcription factor that, in conjunction with a variety of other proteins, provides cells with positional identities on their anterior-posterior axis. Via its ability to modify features of the anterior-posterior body axis, HoxC13 is thought to play a role in the development of nails, hair and filiform papilla.

REFERENCES

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5. Kulesa, H., et al. 2000. Inhibition of BMP signaling affects growth and differentiation in the anagen hair follicle. *EMBO J.* 19: 6664-6674.
6. Kosaki, K., et al. 2002. Complete mutation analysis panel of the 39 human HOX genes. *Teratology* 65: 50-62.
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CHROMOSOMAL LOCATION

Genetic locus: HOXC13 (human) mapping to 12q13.13.

PRODUCT

HoxC13 (h): 293T Lysate represents a lysate of human HoxC13 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

HoxC13 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive HoxC13 antibodies. Recommended use: 10-20 µl per lane.

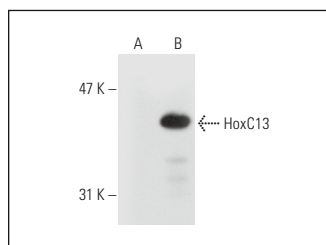
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

HoxC13 (SS-39): sc-81967 is recommended as a positive control antibody for Western Blot analysis of enhanced human HoxC13 expression in HoxC13 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-IgGκ BP-HRP: sc-516102 or m-IgGκ 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



HoxC13 (SS-39): sc-81967. Western blot analysis of HoxC13 expression in non-transfected: sc-117752 (A) and human HoxC13 transfected: sc-111609 (B) 293T whole cell lysates.

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.