SANTA CRUZ BIOTECHNOLOGY, INC.

Hex (h): 293T Lysate: sc-116368

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The homeobox protein Hex, also known as proline-rich homeodomain protein (Prh), is encoded by a divergent homeobox gene that is transiently expressed in many hematopoietic lineages, suggesting involvement in cellular differentiation. Hex plays a critical role in inducing differentiation of vascular endothelial cells, in the development and maintenance of several organs derived from foregut endoderm, such as the lung, liver and thyroid gland, and in thyroid cell differentiation. Specifically, Hex is expressed in the developmental phases of the thyroid, lung, liver, thymus, gallbladder and pancreas, and in the adult thyroid, lung and liver. Hex also mediates transcriptional induction of the SMemb/NMHC-B gene via its homeodomain and can function as a transcriptional modulator of CRE-dependent transcription in vascular smooth muscle cells (VSMCs). Hex, a soluble protein, is detected in both the nucleus and cytoplasm of transfected and nontransfected cultured cells.

REFERENCES

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6. Sekiguchi, K., Kurabayashi, M., Oyama, Y., Aihara, Y., Tanaka, T., Sakamoto, H., Hoshino, Y., Kanda, T., Yokoyama, T., Shimomura, Y., Iijima, H., Phyama, Y. and Nagai, R. 2001. Homeobox proteins Hex induces smemb/nonmuscle myosin heavy chain-β gene expression through the camp-responsive element. Circ. Res. 1: 52-58.

CHROMOSOMAL LOCATION

Genetic locus: HHEX (human) mapping to 10q23.33.

PRODUCT

Hex (h): 293T Lysate represents a lysate of human Hex 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

Hex (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Hex 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.

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.