

HoxC9 (h): 293T Lysate: sc-116567

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. HoxC9 (homeobox protein HoxC9), also known as HOX3 or HOX3B, is a member of the Abd-B homeobox (Hox) family. It is a 260 amino acid long nuclear protein that contains one homeobox DNA-binding domain. HoxC9 plays a role in the regulation of development, providing cells with positional identities on the anterior-posterior body axis. In addition, HoxC9 is expressed in esophageal cancer cells and may be involved in cancer development.

REFERENCES

1. Redline, R.W., et al. 1994. Expression of Abd-B-type homeobox genes in human tumors. *Lab. Invest.* 71: 663-670.
2. Miano, J.M., et al. 1996. Restricted expression of homeobox genes distinguishes fetal from adult human smooth muscle cells. *Proc. Natl. Acad. Sci. USA* 93: 900-905.
3. Ponsuksili, S., et al. 2001. Expression of homeobox-containing genes in cDNA libraries derived from cattle oocytes and preimplantation stage embryo. *Mol. Reprod. Dev.* 60: 297-301.
4. Online Mendelian Inheritance in Man, OMIM[™]. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 142970. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. López, R., et al. 2006. A subgroup of HOX Abd-B gene is differentially expressed in cervical cancer. *Int. J. Gynecol. Cancer* 16: 1289-1296.

CHROMOSOMAL LOCATION

Genetic locus: HOXC9 (human) mapping to 12q13.13.

PRODUCT

HoxC9 (h): 293T Lysate represents a lysate of human HoxC9 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

HoxC9 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive HoxC9 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.

HoxC9 (HOXA6E6): sc-81100 is recommended as a positive control antibody for Western Blot analysis of enhanced human HoxC9 expression in HoxC9 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

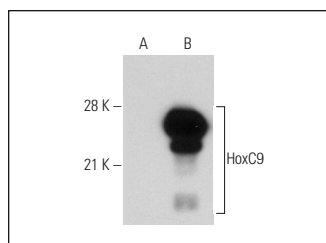
STORAGE

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.

DATA



HoxC9 (HOXA6E6): sc-81100. Western blot analysis of HoxC9 expression in non-transfected: sc-117752 (A) and human HoxC9 transfected: sc-116567 (B) 293T whole cell lysates.

PROTOCOLS

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