

HoxC9 (A-23): sc-133673

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 Hox-C9), 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

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3. Ponsuksili, S., Wimmers, K., Adjaye, J. and Schellander, K. 2001. Expression of homeobox-containing genes in cDNA libraries derived from cattle oocytes and preimplantation stage embryo. *Mol. Reprod. Dev.* 60: 297-301.
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6. Huntriss, J., Hinkins, M. and Picton, H.M. 2006. cDNA cloning and expression of the human NOBOX gene in oocytes and ovarian follicles. *Mol. Hum. Reprod.* 12: 283-289.

CHROMOSOMAL LOCATION

Genetic locus: HOXC9 (human) mapping to 12q13.13; Hoxc9 (mouse) mapping to 15 F3.

SOURCE

HoxC9 (A-23) is a Protein A purified rabbit polyclonal antibody raised against synthetic HoxC9 peptide of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

HoxC9 (A-23) is recommended for detection of HoxC9 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for HoxC9 siRNA (h): sc-75289, HoxC9 siRNA (m): sc-75290, HoxC9 shRNA Plasmid (h): sc-75289-SH, HoxC9 shRNA Plasmid (m): sc-75290-SH, HoxC9 shRNA (h) Lentiviral Particles: sc-75289-V and HoxC9 shRNA (m) Lentiviral Particles: sc-75290-V.

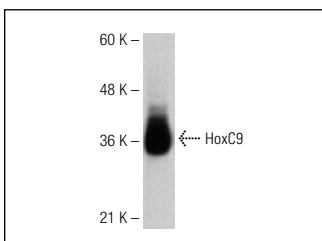
Molecular Weight of HoxC9: 29 kDa.

Positive Controls: HT-1080 whole cell lysate: sc-364183.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



HoxC9 (A-23): sc-133673. Western blot analysis of human HoxC9 transfected 293T whole cell lysate.

RESEARCH USE

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

PROTOCOLS

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


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Try **HoxC9 (HOXCA6E6): sc-81100**, our highly recommended monoclonal alternative to HoxC9 (A-23).