

# HoxC10 (A-22): sc-133672

## BACKGROUND

The Hox proteins 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. HoxC10 oscillates in abundance during the cell cycle, being targeted for degradation early in mitosis by the ubiquitin-dependent proteasome pathway. HoxC10 is a homeoprotein with the potential to influence mitotic progression, and might provide a link between developmental regulation and cell cycle control.

## REFERENCES

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8. Ramachandran, S., et al. 2005. Loss of HoxC6 expression induces apoptosis in prostate cancer cells. *Oncogene* 24: 188-198.
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## CHROMOSOMAL LOCATION

Genetic locus: HOXC10 (human) mapping to 12q13.13; Hoxc10 (mouse) mapping to 15 F3.

## SOURCE

HoxC10 (A-22) is an affinity purified rabbit polyclonal antibody raised against synthetic HoxC10 peptide of human origin.

## PRODUCT

Each vial contains 50  $\mu$ g IgG in 0.5 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## APPLICATIONS

HoxC10 (A-22) is recommended for detection of HoxC10 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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 HoxC10 siRNA (h): sc-44810, HoxC10 siRNA (m): sc-44811, HoxC10 shRNA Plasmid (h): sc-44810-SH, HoxC10 shRNA Plasmid (m): sc-44811-SH, HoxC10 shRNA (h) Lentiviral Particles: sc-44810-V and HoxC10 shRNA (m) Lentiviral Particles: sc-44811-V.

Molecular Weight of HoxC10: 38 kDa.

## 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).

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **HoxC10 (3F2): sc-517164**, our highly recommended monoclonal alternative to HoxC10 (A-22).