

# HoxC10 (L-17): sc-33003

## 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.

## CHROMOSOMAL LOCATION

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

## SOURCE

HoxC10 (L-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HoxC10 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-33003 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-33003 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

HoxC10 (L-17) 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 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

HoxC10 (L-17) is also recommended for detection of HoxC10 in additional species, including canine, bovine and porcine.

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.

HoxC10 (L-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

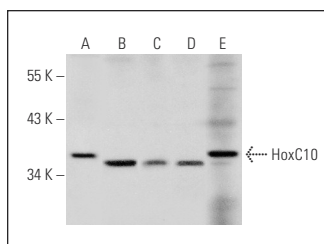
Molecular Weight of HoxC10: 38 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, Jurkat whole cell lysate: sc-2204 or HeLa whole cell lysate: sc-2200.

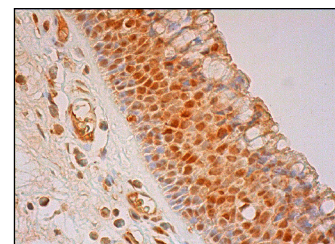
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



HoxC10 (L-17): sc-33003. Western blot analysis of HoxC10 expression in HeLa (A), Jurkat (B), HEK293 (C) and K-562 (D) whole cell lysates and mouse heart tissue extract (E).



HoxC10 (L-17): sc-33003. Immunoperoxidase staining of formalin fixed, paraffin-embedded human nasopharynx tissue showing nuclear and cytoplasmic staining of respiratory epithelial cells.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Satisfaction  
Guaranteed

Try **HoxC10 (3F2): sc-517164**, our highly recommended monoclonal alternative to HoxC10 (L-17).