

# HoxC6 (H-120): sc-66925

## 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. The mammalian HOX gene complex consists of 39 genes that are located on 4 linkage groups, which are dispersed over 4 chromosomes. HOX genes that occupy the same relative position along the 5' to 3' coordinate (trans-paralogous genes) are more similar in sequence and expression pattern than adjacent HOX genes on the same chromosome. HoxC6 sequence-specific transcription factor is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. HOXC6 may be a novel potential therapeutic target for prostate cancer.

## CHROMOSOMAL LOCATION

Genetic locus: HOXC6 (human) mapping to 12q13.13; Hoxc6 (mouse) mapping to 15 F3.

## SOURCE

HoxC6 (H-120) is a rabbit polyclonal antibody raised against amino acids 1-120 mapping at the N-terminus of HoxC6 of human origin.

## PRODUCT

Each vial contains 200 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-66925 X, 200 µg/0.1 ml.

## STORAGE

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

## APPLICATIONS

HoxC6 (H-120) is recommended for detection of HoxC6 isoform 1, and to a lesser extent, isoform 2 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).

HoxC6 (H-120) is also recommended for detection of HoxC6 isoform 1, and to a lesser extent, isoform 2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for HoxC6 siRNA (h): sc-45673, HoxC6 siRNA (m): sc-45674, HoxC6 shRNA Plasmid (h): sc-45673-SH, HoxC6 shRNA Plasmid (m): sc-45674-SH, HoxC6 shRNA (h) Lentiviral Particles: sc-45673-V and HoxC6 shRNA (m) Lentiviral Particles: sc-45674-V.

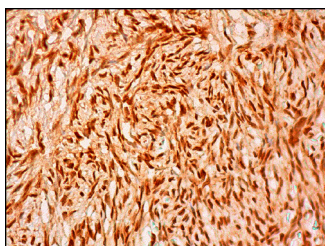
HoxC6 (H-120) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of HoxC6 isoforms: 27/18 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). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



HoxC6 (H-120): sc-66925. Immunoperoxidase staining of formalin fixed, paraffin-embedded human ovary tissue showing nuclear staining of ovarian stroma cells.

## 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.


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Try **HoxC6 (B-7): sc-376330**, our highly recommended monoclonal alternative to HoxC6 (H-120).