

HoxC6 (C-13): sc-46133

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 four linkage groups, which are dispersed over four 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 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-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-46133 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-46133 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

HoxC6 (C-13) is recommended for detection of HoxC6 isoform 1 and 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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 (C-13) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

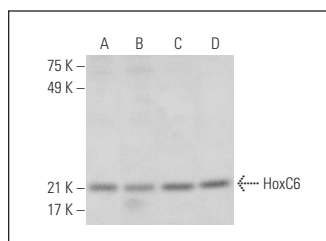
Molecular Weight of HoxC6 isoforms: 27/18 kDa.

Positive Controls: SK-N-MC cell lysate: sc-2237, Hep G2 cell lysate: sc-2227 or HeLa nuclear extract: sc-2120.

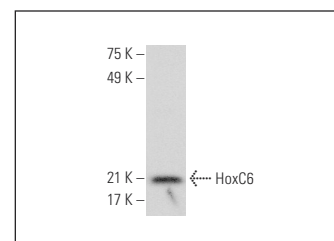
RECOMMENDED SECONDARY REAGENTS

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.

DATA



HoxC6 (C-13): sc-46133. Western blot analysis of HoxC6 expression in MCF7 (A), HeLa (B) and K-562 (C) nuclear extracts and Hep G2 whole cell lysate (D).



HoxC6 (C-13): sc-46133. Western blot analysis of HoxC6 expression in SK-N-MC nuclear extract.

SELECT PRODUCT CITATIONS

1. Klein, D., et al. 2013. Hox genes are involved in vascular wall-resident multipotent stem cell differentiation into smooth muscle cells. *Sci. Rep.* 3: 2178.

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.

MONOS
Satisfaction
Guaranteed

Try **HoxC6 (B-7): sc-376330**, our highly recommended monoclonal alternative to HoxC6 (C-13).