

# HoxC5 (A-19): sc-82909

## BACKGROUND

The Hox homeobox genes encode proteins that are transcriptional regulators with an established role in embryonic development. HoxC5 (homeobox C5), also known as CP11, HOX3 or HOX3D, is a 222 amino acid protein that localizes to the nucleus and contains one homeobox DNA-binding domain. Existing as multiple alternatively spliced isoforms, HoxC5 functions as a sequence-specific DNA-binding transcription factor that is part of a regulatory mechanism that provides cells with positional identities during development. The gene encoding HoxC5 maps to a cluster of Hox proteins on chromosome 12 that are essential for morphogenesis. Encoding over 1,100 genes within 132 million bases, chromosome 12 makes up about 4.5% of the human genome. A number of skeletal deformities are linked to chromosome 12, including hypochondrogenesis, achondrogenesis and Kniest dysplasia.

## CHROMOSOMAL LOCATION

Genetic locus: HOXC5 (human) mapping to 12q13.13; Hoxc5 (mouse) mapping to 15 F3.

## SOURCE

HoxC5 (A-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HoxC5 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.

Blocking peptide available for competition studies, sc-82909 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

HoxC5 (A-19) is recommended for detection of HoxC5 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); non cross-reactive with other Hox family members.

HoxC5 (A-19) is also recommended for detection of HoxC5 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for HoxC5 siRNA (h): sc-75287, HoxC5 siRNA (m): sc-75288, HoxC5 shRNA Plasmid (h): sc-75287-SH, HoxC5 shRNA Plasmid (m): sc-75288-SH, HoxC5 shRNA (h) Lentiviral Particles: sc-75287-V and HoxC5 shRNA (m) Lentiviral Particles: sc-75288-V.

HoxC5 (A-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

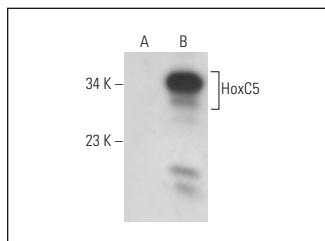
Molecular Weight of HoxC5: 25 kDa.

Positive Controls: HoxC5 (h2): 293T Lysate: sc-128826.

## 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



HoxC5 (A-19) : sc-82909. Western blot analysis of HoxC5 expression in non-transfected: sc-117752 (A) and human HoxC5 transfected: sc-128826 (B) 293T whole cell lysates.

## 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 **HoxC5 (1E10): sc-517171**, our highly recommended monoclonal alternative to HoxC5 (A-19).