

HoxC9 (E-17): sc-82913

BACKGROUND

The Hox proteins are a family of transcription factors that 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. HoxC9 (homeobox protein HoxC9), also known as HOX3 or HOX3B, is a member of the Abd-B homeobox (Hox) family. It is a 260 amino acid long nuclear protein that contains one homeobox DNA-binding domain. HoxC9 plays a role in the regulation of development, providing cells with positional identities on the anterior-posterior body axis. In addition, HoxC9 is expressed in esophageal cancer cells and may be involved in cancer development.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HOXC9 (human) mapping to 12q13.13; Hoxc9 (mouse) mapping to 15 F3.

SOURCE

HoxC9 (E-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HoxC9 of human origin.

STORAGE

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

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-82913 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HoxC9 (E-17) is recommended for detection of HoxC9 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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.

HoxC9 (E-17) is also recommended for detection of HoxC9 in additional species, including bovine.

Suitable for use as control antibody for HoxC9 siRNA (h): sc-75289, HoxC9 siRNA (m): sc-75290, HoxC9 shRNA Plasmid (h): sc-75289-SH, HoxC9 shRNA Plasmid (m): sc-75290-SH, HoxC9 shRNA (h) Lentiviral Particles: sc-75289-V and HoxC9 shRNA (m) Lentiviral Particles: sc-75290-V.

HoxC9 (E-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of HoxC9: 29 kDa.

Positive Controls: HT-1080 whole cell lysate: sc-364183.

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) 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.

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.


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Try **HoxC9 (HOXCA6E6): sc-81100**, our highly recommended monoclonal alternative to HoxC9 (E-17).