

HoxB8 (D-17): sc-82897

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. HoxB8 (homeobox protein Hox-B8), also known as HOX2D or HOX2, is a 243 amino acid nuclear protein that contains one homeobox DNA-binding domain and belongs to the Hox family. Expressed in the developing fetus, HoxB8 functions as a sequence-specific transcription factor that regulates the development of the anterior-posterior axis. HoxB8 expression is upregulated in colorectal cancer, suggesting a role for HoxB8 in tumorigenesis.

CHROMOSOMAL LOCATION

Genetic locus: HOXB8 (human) mapping to 17q21.32; Hoxb8 (mouse) mapping to 11 D.

SOURCE

HoxB8 (D-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HoxB8 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-82897 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-82897 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

HoxB8 (D-17) is recommended for detection of HoxB8 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.

HoxB8 (D-17) is also recommended for detection of HoxB8 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for HoxB8 siRNA (h): sc-75281, HoxB8 siRNA (m): sc-75282, HoxB8 shRNA Plasmid (h): sc-75281-SH, HoxB8 shRNA Plasmid (m): sc-75282-SH, HoxB8 shRNA (h) Lentiviral Particles: sc-75281-V and HoxB8 shRNA (m) Lentiviral Particles: sc-75282-V.

HoxB8 (D-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

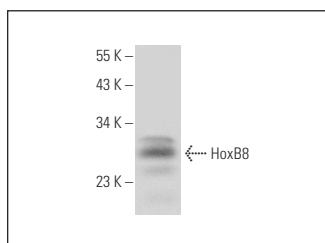
Molecular Weight of HoxB8: 28 kDa.

Positive Controls: NRK whole cell lysate: sc-364197.

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



HoxB8 (D-17): sc-82897. Western blot analysis of HoxB8 expression in NRK whole cell lysate.

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 or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **HoxB8 (4F8): sc-517156**, our highly recommended monoclonal alternative to HoxB8 (D-17).