HoxC6 (B-7): sc-376330

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.

REFERENCES


CHROMOSOMAL LOCATION

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

SOURCE

HoxC6 (B-7) is a mouse monoclonal antibody raised against amino acids 1-120 mapping at the N-terminus of HoxC6 of human origin.

PRODUCT

Each vial contains 200 µg IgG2a kappa light chain 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-376330 X, 200 µg/0.1 ml.

HoxC6 (B-7) is available conjugated to agarose (sc-376330 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376330 HRP), 200 µg/ml, for WB, (HCP) and ELISA; to either phycoerythrin (sc-376330 PE), fluorescein (sc-376330 FITC), Alexa Fluor® 488 (sc-376330 AF488), Alexa Fluor® 546 (sc-376330 AF546), Alexa Fluor® 594 (sc-376330 AF594) or Alexa Fluor® 647 (sc-376330 AF647), 200 µg/ml, for WB (RGB), IF, (HCP) and FCM; and to either Alexa Fluor® 680 (sc-376330 AF680) or Alexa Fluor® 790 (sc-376330 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

HoxC6 (B-7) is recommended for detection of HoxC6 isoform 1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

HoxC6 (B-7) is also recommended for detection of HoxC6 isoform 1 in additional species, including equine, canine, bovine and porcine. 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 (B-7) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Positive Controls: SK-N-MC nuclear extract: sc-2154.

Molecular Weight of HoxC6 isoforms: 27/18 kDa.

DATA

![Western blot analysis of HoxC6 expression in SK-N-MC nuclear extract.](image)

SELECT PRODUCT CITATIONS


RESEARCH USE

For research use only, not for use in diagnostic procedures.