

HoxA5 (H-125): sc-28599

BACKGROUND

HoxA5 (previously identified as Hox-1.3) is a transcriptional regulator of multiple target genes, including p53 and the progesterone receptor. It is a potent transactivator of p53 and may affect the response of breast cancer cells to DNA damage. In primary breast carcinomas, loss of p53 expression is coupled with loss of HoxA5 expression, suggesting that the loss of HoxA5 expression is important in tumorigenesis. HoxA5 is dynamically expressed during gut development and organogenesis of the respiratory tract, and is continuously expressed from the neonatal period into adult stages in cerebellar Purkinje cells. Expression of HoxA5 is necessary for the region-specific differentiation of the endoderm and differentiation of the myeloid pathway. HoxA5 is also essential for correct specification of the cervical and upper thoracic region of the skeleton and for proper patterning of the embryo.

CHROMOSOMAL LOCATION

Genetic locus: HOXA5 (human) mapping to 7p15.2; Hoxa5 (mouse) mapping to 6 B3.

SOURCE

HoxA5 (H-125) is a rabbit polyclonal antibody raised against amino acids 56-180 mapping within an internal region of HoxA5 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-28599 X, 200 µg/0.1 ml.

APPLICATIONS

HoxA5 (H-125) is recommended for detection of HoxA5 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

HoxA5 (H-125) is also recommended for detection of HoxA5 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for HoxA5 siRNA (h): sc-38678, HoxA5 siRNA (m): sc-38679, HoxA5 shRNA Plasmid (h): sc-38678-SH, HoxA5 shRNA Plasmid (m): sc-38679-SH, HoxA5 shRNA (h) Lentiviral Particles: sc-38678-V and HoxA5 shRNA (m) Lentiviral Particles: sc-38679-V.

HoxA5 (H-125) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of HoxA5: 30 kDa.

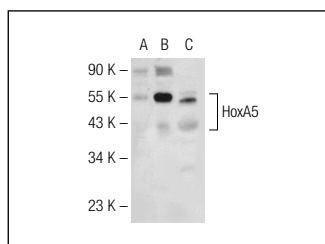
Molecular Weight (observed) of HoxA5: 43/55 kDa.

Positive Controls: HoxA5 (h): 293T Lysate: sc-173687 or SK-N-SH cell lysate: sc-2410.

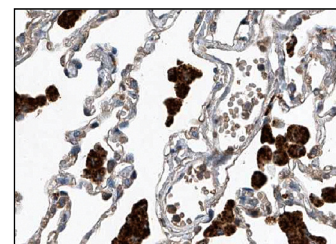
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



HoxA5 (H-125): sc-28599. Western blot analysis of HoxA5 expression in non-transfected 293T: sc-117752 (A), human HoxA5 transfected 293T: sc-173687 (B) and SK-N-SH (C) whole cell lysates.



HoxA5 (H-125): sc-28599. Immunoperoxidase staining of formalin fixed, paraffin-embedded human lung tissue showing cytoplasmic staining of macrophages at high magnification. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

SELECT PRODUCT CITATIONS

1. Liu, X.H., et al. 2012. MicroRNA-196a promotes non-small cell lung cancer cell proliferation and invasion through targeting HOXA5. BMC cancer 12: 348.

STORAGE

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

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.



Try **HoxA5 (C-11): sc-365784** or **HoxA5 (C-12): sc-515385**, our highly recommended monoclonal alternatives to HoxA5 (H-125).