Dlx-5 (H-4): sc-398150



The Power to Question

BACKGROUND

Dlx genes are a highly conserved family of six different (Dlx1-6) homeo box-containing genes that share homology with distal-less (DII), a gene expressed in the head and limbs of the developing fruit fly. Dlx genes are expressed in spatially and temporally restricted patterns in craniofacial primordia, basal telencephalon and diencephalon, and in distal regions of extending appendages, including the limb and the genital bud. The differential expression of DIx influences patterning, morphogenesis and histogenesis in these tissues. The Dlx gene products can activate transcription and are localized primarily to the nucleus, although Dlx-5 can be found in the cytoplasm. Dlx proteins influence different stages of proper tissue development, including patterning of the orofacial skeleton (craniofacial ectomesenchyme) and differentiation of structures within and between teeth.

CHROMOSOMAL LOCATION

Genetic locus: DLX5 (human) mapping to 7q21.3; Dlx5 (mouse) mapping to 6 A1.

SOURCE

Dlx-5 (H-4) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 98-127 within an internal region of Dlx-5 of human origin.

PRODUCT

Each vial contains 200 µg lgM 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-398150 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-398150 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

Dlx-5 (H-4) is recommended for detection of Dlx-5 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).

Suitable for use as control antibody for Dlx-5 siRNA (h): sc-38657, Dlx-5 siRNA (m): sc-38658, Dlx-5 siRNA (r): sc-156086, Dlx-5 shRNA Plasmid (h): sc-38657-SH, DIx-5 shRNA Plasmid (m): sc-38658-SH, DIx-5 shRNA Plasmid (r): sc-156086-SH, Dlx-5 shRNA (h) Lentiviral Particles: sc-38657-V, DIx-5 shRNA (m) Lentiviral Particles: sc-38658-V and DIx-5 shRNA (r) Lentiviral Particles: sc-156086-V..

Dlx-5 (H-4) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Dlx-5: 35 kDa.

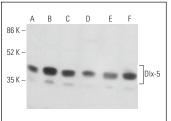
Positive Controls: COLO 205 whole cell lysate: sc-364177, RAW 264.7 whole cell lysate: sc-2211 or HL-60 whole cell lysate: sc-2209.

RECOMMENDED SUPPORT REAGENTS

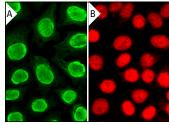
To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-laGk BP-HRP: sc-516102 or m-laGk BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-lgGκ BP-FITC: sc-516140 or m-lgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA

sc-516102.







Dlx-5 (H-4): sc-398150. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization (A). Immunofluorescence staining of formalin-fixed HeLa cells showing nuclear locali zation. Detection reagent used: m-lgGκ BP-CFL 555: sc-516177 (B)

SELECT PRODUCT CITATIONS

- 1. Ouyang, L., et al. 2021. ALKBH1-demethylated DNA N⁶-methyladenine modification triggers vascular calcification via osteogenic reprogramming in chronic kidney disease. J. Clin. Invest. 131: e146985.
- 2. Kochat, V., et al. 2021. Enhancer reprogramming in PRC2-deficient malignant peripheral nerve sheath tumors induces a targetable dedifferentiated state. Acta Neuropathol. 142: 565-590.

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 for detailed protocols and support products.