# Dlx-3 (h): 293T Lysate: sc-113948



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 (Dll), 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 differen-tial expression of Dlx 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.

#### **REFERENCES**

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- 3. Depew, M.J., et al. 1999. Dlx5 regulates regional development of the branchial arches and sensory capsules. Development 126: 3831-3846.
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- 5. Bendall, A.J., et al. 2000. Roles for Msx and Dlx homeoproteins in vertebrate development. Gene 247: 17-31.
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## **CHROMOSOMAL LOCATION**

Genetic locus: DLX3 (human) mapping to 17q21.33.

## **PRODUCT**

DIx-3 (h): 293T Lysate represents a lysate of human DIx-3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

#### **RESEARCH USE**

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

## **APPLICATIONS**

DIx-3 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive DIx-3 antibodies. Recommended use: 10-20  $\mu$ l per lane.

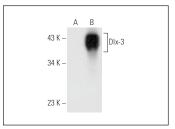
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

DIx-3 (B-5): sc-514094 is recommended as a positive control antibody for Western Blot analysis of enhanced human DIx-3 expression in DIx-3 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

#### **DATA**



Dlx-3 (B-5): sc-514094. Western blot analysis of Dlx-3 expression in non-transfected: sc-117752 (A) and human Dlx-3 transfected: sc-119487 (B) 293T whole cell lysates.

#### STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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