**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 differential 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**


**CHROMOSOMAL LOCATION**

Genetic locus: DLX2 (human) mapping to 2q31.1; Dlx2 (mouse) mapping to 2 C2.

**SOURCE**

Dlx-2 (B-5) is a mouse monoclonal antibody raised against amino acids 211-250 mapping within an internal region of Dlx-2 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG_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-393879 X, 200 µg/0.1 ml.

Dlx-2 (B-5) is available conjugated to agarose (sc-393879 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393879 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393879 PE), fluorescein (sc-393879 FITC), Alexa Fluor® 488 (sc-393879 AF488), Alexa Fluor® 546 (sc-393879 AF546), Alexa Fluor® 594 (sc-393879 AF594) or Alexa Fluor® 647 (sc-393879 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393879 AF680) or Alexa Fluor® 790 (sc-393879 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**RESEARCH USE**

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

**APPLICATIONS**

Dlx-2 (B-5) is recommended for detection of Dlx-2 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).


Dlx-2 (B-5) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of Dlx-2: 34 kDa.
Molecular Weight (observed) of Dlx-2: 45 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, mouse brain extract: sc-2253 or human brain extract: sc-364375.

**DATA**

Dlx-2 (B-5) sc-393879. Western blot analysis of Dlx-2 expression in Hep G2 whole cell lysate (A) and human brain (B) and mouse brain (C) tissue extracts.

**SELECT PRODUCT CITATIONS**


**STORAGE**

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