**BACKGROUND**

Cdx1, Cdx2 and Cdx4 are members of the caudal-type homeobox family of genes, which are homologs of the *Drosophila* "caudal" gene required for anterior-posterior regional identity. The proteins encoded by these genes are transcription factors which play an important role in development by regulating the expression of Hox genes. Hox genes play a fundamental role in the development of the vertebrate central nervous system, heart, axial skeleton, limbs, gut, urogenital tract and external genitalia. Cdx4 is a major positive regulator of the expression of all Cdx family members. Due to its critical role as a regulator, Cdx4 is a direct target of the canonical Wnt pathway. The loss of Cdx4 can result in the development of an expanded hindbrain, while the over-expression of Cdx4 may cause the hindbrain to lose its distinct segmental features and resemble the spinal cord.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CDX4 (human) mapping to Xq13.2; Cdx4 (mouse) mapping to X D.

**SOURCE**

Cdx4 (H-4) is a mouse monoclonal antibody raised against amino acids 1-168 mapping at the N-terminus of Cdx4 of mouse 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-374471 X, 200 µg/0.1 ml.

Cdx4 (H-4) is available conjugated to agarose (sc-374471 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374471 HRP), 200 µg/ml, for WB, IB, and ELISA; to either phycoerythrin (sc-374471 PE), fluorescein (sc-374471 FITC), Alexa Fluor® 488 (sc-374471 AF488), Alexa Fluor® 546 (sc-374471 AF546), Alexa Fluor® 594 (sc-374471 AF594) or Alexa Fluor® 647 (sc-374471 AF647), 200 µg/ml, for WB (RGB), IF, IB, and FCM; and to either Alexa Fluor® 680 (sc-374471 AF680) or Alexa Fluor® 790 (sc-374471 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Cdx4 (H-4) is recommended for detection of Cdx4 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 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 1:30-1:300).

Suitable for use as control antibody for Cdx4 siRNA (h): sc-72316, Cdx4 siRNA (m): sc-72317, Cdx4 shRNA Plasmid (h): sc-72316-SH, Cdx4 shRNA Plasmid (m): sc-72317-SH, Cdx4 shRNA (h) Lentiviral Particles: sc-72316-V and Cdx4 shRNA (m) Lentiviral Particles: sc-72317-V.

Cdx4 (H-4) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

**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.

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