**BACKGROUND**

The Hox proteins play a role in patterns of embryonic development and cellular differentiation by regulating downstream target genes. The Hox11 gene, termed an orphan homeobox gene, as it is located outside of the four mammalian Hox clusters, is a DNA-binding nuclear transcription factor. The human Hox11 gene maps to chromosome 10q24 and has been implicated in the chromosomal translocation t(7;10)(q24;q11) that occurs in T cell acute lymphoblastic leukemia (T-ALL). The t(7;10) translocation occurs between the Hox11 gene and the T cell receptor (TCR) δ-chain gene and is a result of aberrant physiological recombination events at the early stages of T cell development. The Hox11 gene is normally expressed in the splanchnic anlage arising from the splanchnic mesoderm. Homozygous Hox11-deficient mice have no spleen, while all other splanchnic derivatives develop normally. Spleen development starts and proceeds normally in Hox11-deficient mice to a specific stage of embryogenesis, when the spleen anlage becomes fully absorbed.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: TLX1 (human) mapping to 10q24.31; Tlx1 (mouse) mapping to 19 C3.

**SOURCE**

Hox11 (1D7) is a mouse monoclonal antibody raised against amino acids 261-330 of Hox11 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 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-12760, 200 µg/ml.

Hox11 (1D7) is available conjugated to agarose (sc-12760 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-12760 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-12760 PE), fluorescein (sc-12760 FITC), Alexa Fluor® 488 (sc-12760 AF488), Alexa Fluor® 546 (sc-12760 AF546), Alexa Fluor® 594 (sc-12760 AF594) or Alexa Fluor® 647 (sc-12760 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-12760 AF680) or Alexa Fluor® 790 (sc-12760 AF790), 200 µg/ml, for Near-Infrared (NIR) IF, WB and FCM.

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**APPLICATIONS**

Hox11 (1D7) is recommended for detection of Hox11 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)).

Suitable for use as control antibody for Hox11 siRNA (h): sc-38700, Hox11 siRNA (m): sc-38701, Hox11 shRNA Plasmid (h): sc-38700-SH, Hox11 shRNA Plasmid (m): sc-38701-SH, Hox11 shRNA (h) Lentiviral Particles: sc-38700-V and Hox11 shRNA (m) Lentiviral Particles: sc-38701-V.

Hox11 (1D7) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Hox11: 40 kDa.

Positive Controls: ALL-SIL whole cell lysate: sc-364356.

**DATA**

Hox11 (1D7): sc-12760. Western blot analysis of Hox11 expression in ALL-SIL whole cell lysate (A) and Hox11 expression in ALL-SIL whole cell lysate immunopurified with Hox11 (1D7): sc-12760 and detected by Western blot with the same antibody (B).

**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.

**RESEARCH USE**

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