**Background**

The T-box (Tbx) motif is present in a family of genes whose structural features and expression patterns support their involvement in developmental gene regulation. The Tbx gene family are largely conserved throughout metazoan evolution, and these genes code for putative transcription factors that share a uniquely defining DNA-binding domain. Tbx genes are a family of developmental regulators with more than 20 members recently identified in invertebrates and vertebrates. Mutations in Tbx genes are associated with the onset of several human diseases. Our understanding of functional mechanisms of Tbx products has come mainly from the prototypical T/brachyury, which is a transcription activator. The Tbx genes constitute a family of transcriptional regulatory genes that are implicated in a variety of developmental processes ranging from the formation of germ layers to the organizational patterning of the central nervous system.

**References**


**Chromosomal Location**

Genetic locus: TBX2 (human) mapping to 17q23.2; Tbx2 (mouse) mapping to 11 C.

**Source**

TBX2 (D-3) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 681-702 of the C-terminus of TBX2 of human origin.

**Applications**

TBX2 (D-3) is recommended for detection of TBX2 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 TBX2 siRNA (m): sc-38470, TBX2 siRNA (h): sc-38469, TBX2 shRNA Plasmid (m): sc-38470-5H, TBX2 shRNA Plasmid (h): sc-38469-SH, TBX2 shRNA [m] Lentiviral Particles: sc-38470-V and TBX2 shRNA (h) Lentiviral Particles: sc-38469-V.

TBX2 (D-3) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of TBX2: 74 kDa.

Positive Controls: MCF7 nuclear extract: sc-214B or Neuro-2A whole cell lysate: sc-364185.

**Data**

![Western Blot Analysis of TBX2 Expression](image)

**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.

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**Product Details**

- **TBX2 (D-3): sc-514291**

**Applications**

- Western Blot Analysis of TBX2 expression in Neuro-2A whole cell lysate.
- Western Blot Analysis of TBX2 expression in MCF7 nuclear extract.

**Source**

- SANTA CRUZ BIOTECHNOLOGY, INC.
- Online: www.scbt.com

**Storage**

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**References**