TBX20 (U-21): sc-134061



The Power to Question

BACKGROUND

Members of the T-box (Tbx) gene family share a conserved domain that codes for the T-box, a sequence involved in DNA-binding and protein dimerization. The Tbx gene family is largely conserved throughout metazoan evolution, and is implicated in a variety of developmental processes ranging from the formation of germ layers to the organizational patterning of the central nervous system. The T-box family member human TBX20 shares approximately 71% sequence identity with the T-box domain of the Drosophila H15 protein. The human TBX20 gene contains 6 exons spanning 22 kb of genomic DNA and encodes a deduced 297-amino acid protein, which is expressed in the fetal heart, eye and limb. During embryogenesis in the mouse, TBX20 is expressed in the developing heart, eye, ventral neural tube, and limbs, indicating a possible role in regulating development of these tissues.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TBX20 (human) mapping to 7p14.2; Tbx20 (mouse) mapping to 9 A4.

SOURCE

TBX20 (U-21) is an affinity purified rabbit polyclonal antibody raised against synthetic TBX20 peptide of human origin.

PRODUCT

Each vial contains 50 μg lgG in 500 $\mu l < 0.1\%$ sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

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

APPLICATIONS

TBX20 (U-21) is recommended for detection of TBX20 of mouse, rat, human zebrafish and canine origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffinembedded sections) (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 TBX20 siRNA (h): sc-38483, TBX20 siRNA (m): sc-38484, TBX20 shRNA Plasmid (h): sc-38483-SH, TBX20 shRNA Plasmid (m): sc-38484-SH, TBX20 shRNA (h) Lentiviral Particles: sc-38483-V and TBX20 shRNA (m) Lentiviral Particles: sc-38484-V.

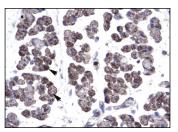
Molecular Weight of TBX20: 33 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



TBX20 (U-21): sc-134061. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human muscle tissue showing outpolasmic legalization.

RESEARCH USE

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

PROTOCOLS

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