

**TBX6 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12063c**

**Specification**

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**TBX6 Antibody (Center) - Product Information**

Application	IF, WB,E
Primary Accession	<a href="#">O95947</a>
Other Accession	<a href="#">D3ZJK7</a> , <a href="#">P70327</a> , <a href="#">E1BEA8</a> , <a href="#">NP_004599.2</a>
Reactivity	Human, Mouse
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	47045
Antigen Region	264-293

**TBX6 Antibody (Center) - Additional Information**

**Gene ID** 6911

**Other Names**

T-box transcription factor TBX6, T-box protein 6, TBX6

**Target/Specificity**

This TBX6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 264-293 amino acids from the Central region of human TBX6.

**Dilution**

IF~~1:10~50

WB~~1:500

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TBX6 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**TBX6 Antibody (Center) - Protein Information**

**Name** TBX6

**Function** T-box transcription factor that plays an essential role in the determination of the fate of axial stem cells: neural vs mesodermal. Acts in part by down-regulating, a specific enhancer (N1) of SOX2, to inhibit neural development. Seems to play also an essential role in left/right axis determination and acts through effects on Notch signaling around the node as well as through an effect on the morphology and motility of the nodal cilia (By similarity).

**Cellular Location**

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00201}.

**Tissue Location**

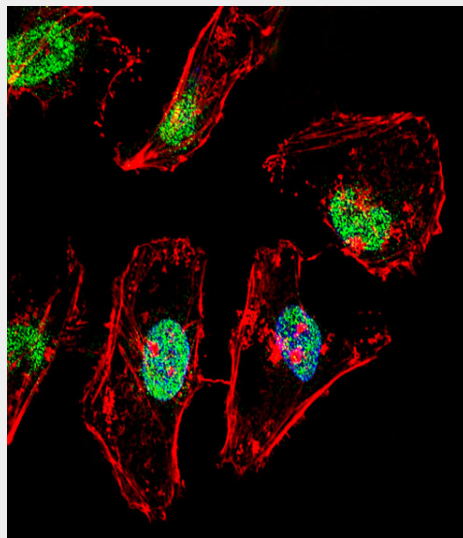
Expressed in fetal tail bud, posterior spinal tissue, intervertebral disk and testis. Also expressed in adult testis, kidney, lung, muscle and thymus

**TBX6 Antibody (Center) - Protocols**

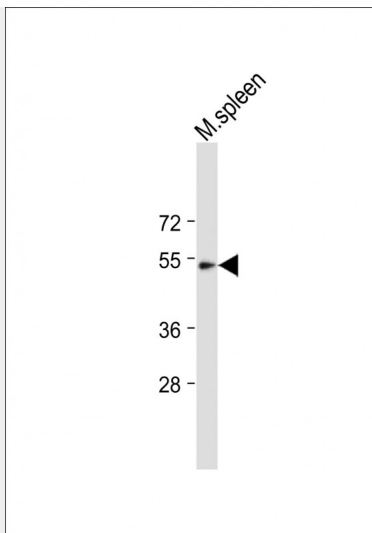
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**TBX6 Antibody (Center) - Images**



Fluorescent confocal image of HeLa cell stained with TBX6 Antibody (Center)(Cat#AP12063c). HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with TBX6 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). TBX6 immunoreactivity is localized to nucleus significantly.



Anti-TBX6 Antibody (Center) at 1:500 dilution + Mouse spleen tissue lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

#### **TBX6 Antibody (Center) - Background**

This gene is a member of a phylogenetically conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of developmental processes. Knockout studies in mice indicate that this gene is important for specification of paraxial mesoderm structures.

#### **TBX6 Antibody (Center) - References**

- Fei, Q., et al. Spine 35(9):983-988(2010)
- Ghebranious, N., et al. J. Bone Miner. Res. 23(10):1576-1583(2008)
- Farin, H.F., et al. J. Biol. Chem. 282(35):25748-25759(2007)
- Papapetrou, C., et al. Genomics 55(2):238-241(1999)
- Yi, C.H., et al. Genomics 55(1):10-20(1999)