

**TBX5 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1295a****Specification**

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**TBX5 Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">O99593</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	53kDa KDa

**Description**

TBX5, also known as T-box 5. It 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. It is closely linked to related family member T-box 3 (ulnar mammary syndrome) on human chromosome 12. The TBX5 protein may play a role in heart development and specification of limb identity. Mutations in this gene have been associated with Holt-Oram syndrome, a developmental disorder affecting the heart and upper limbs. Several transcript variants encoding different isoforms have been described for this gene.

**Immunogen**

Purified recombinant fragment of TBX5 expressed in E. Coli.

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**TBX5 Antibody - Additional Information**

**Gene ID** 6910

**Other Names**

T-box transcription factor TBX5, T-box protein 5, TBX5

**Dilution**

WB~~1/500 - 1/2000

E~~N/A

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TBX5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**TBX5 Antibody - Protein Information**

**Name** TBX5**Function**

DNA-binding protein that regulates the transcription of several genes and is involved in heart development and limb pattern formation (PubMed:<a href="http://www.uniprot.org/citations/25725155" target="\_blank">25725155</a>, PubMed:<a href="http://www.uniprot.org/citations/25963046" target="\_blank">25963046</a>, PubMed:<a href="http://www.uniprot.org/citations/26917986" target="\_blank">26917986</a>, PubMed:<a href="http://www.uniprot.org/citations/27035640" target="\_blank">27035640</a>, PubMed:<a href="http://www.uniprot.org/citations/29174768" target="\_blank">29174768</a>, PubMed:<a href="http://www.uniprot.org/citations/8988164" target="\_blank">8988164</a>). Binds to the core DNA motif of NPPA promoter (PubMed:<a href="http://www.uniprot.org/citations/26926761" target="\_blank">26926761</a>).

**Cellular Location**

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00201, ECO:0000269|PubMed:29174768}.  
Cytoplasm Note=Shuttles between the cytoplasm and the nucleus. Acetylation at Lys-339 promotes nuclear retention.

**TBX5 Antibody - 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](#)

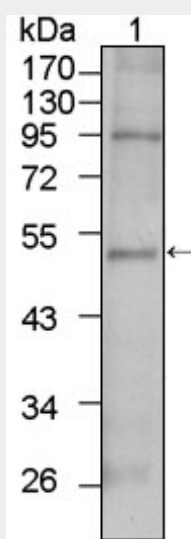
**TBX5 Antibody - Images**

Figure 1: Western blot analysis using TBX5 mouse mAb against HepG2 cell lysate (1).

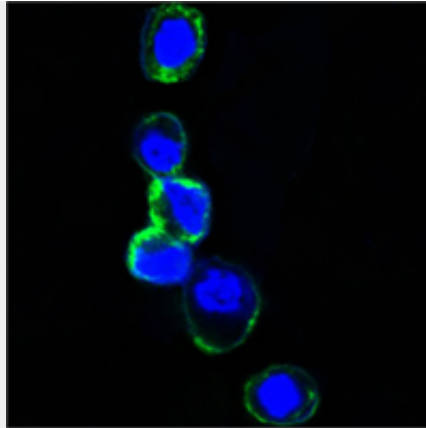


Figure 2: Confocal immunofluorescence analysis of HEK293 cells trasfected with extracellular ERBB3 (aa22-369)-hlgGFc using ERBB3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

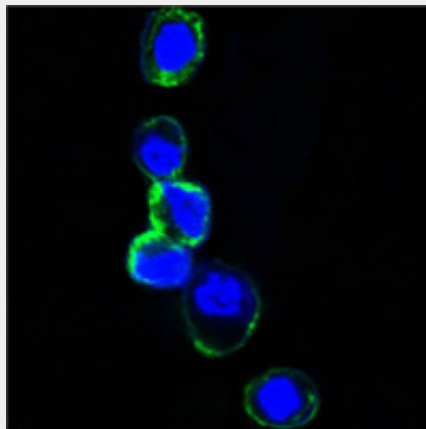


Figure 2: Confocal immunofluorescence analysis of HEK293 cells trasfected with extracellular ERBB3 (aa22-369)-hlgGFc using anti-ERBB3 monoclonal antioby (green). Blue: DRAQ5 fluorescent DNA dye.

#### **TBX5 Antibody - References**

1. Physiol Genomics. 2004 Jul 8;18(2):129-40.
2. J Mol Cell Cardiol. 2003 Oct;35(10):1191-5.