

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

TBX5 Antibody - Product Information

Application	WB, ICC, IF
Primary Accession	Q99593
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

ICC~~1:200~~1000

IF~~1:200~1000.

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:25725155, PubMed:25963046, PubMed:29174768, PubMed:26917986, PubMed:27035640, PubMed:8988164). Binds to the core DNA motif of NPPA promoter (PubMed:26926761).

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

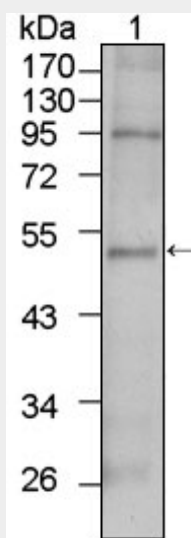


Figure 1: Western blot analysis using TBX5 mouse mAb against HepG2 cell lysate (1).

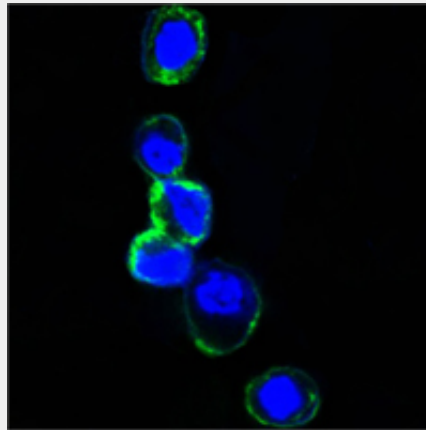


Figure 2: Confocal immunofluorescence analysis of HEK293 cells transfected with extracellular ERBB3 (aa22-369)-hlgGfc using ERBB3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

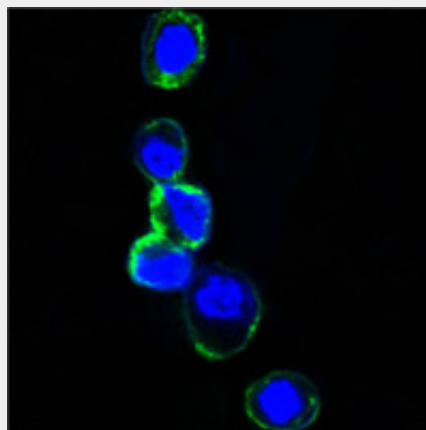


Figure 2: Confocal immunofluorescence analysis of HEK293 cells transfected with extracellular ERBB3 (aa22-369)-hlgGfc using anti-ERBB3 monoclonal antibody (green). Blue: DRAQ5 fluorescent DNA dye.

TBX5 Antibody - References

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