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TBX5 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1295a

Product Information

Application	WB, E
Primary Accession	Q99593
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	7B11
Isotype	IgG1
Calculated MW	57711
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.

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.

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:26917986, PubMed:27035640, PubMed:29174768, 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.

References

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

Images

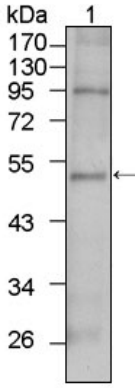


Figure 1: Western blot analysis using TBX5 mouse mAb against HepG2 cell lysate (1).

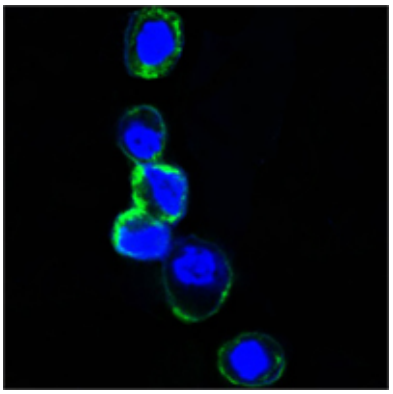


Figure 2: Confocal immunofluorescence analysis of HEK293 cells trasfected with extracellular ERBB3 (aa22-369)-hIgGFc using ERBB3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

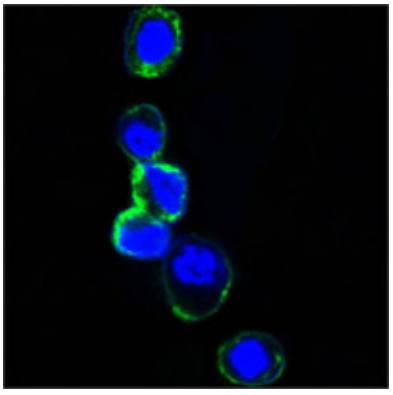


Figure 2: Confocal immunofluorescence analysis of HEK293 cells trasfected with extracellular ERBB3 (aa22-369)-hIgGFc using anti-ERBB3 monoclonal antioby (green). Blue: DRAQ5 fluorescent DNA dye.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.