

TBX5 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14687A

Product Information

Application	WB, IHC-P, E
Primary Accession	Q99593
Other Accession	NP_542449.1 , NP_852259.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34604
Calculated MW	57711
Antigen Region	1-30

Additional Information

Gene ID	6910
Other Names	T-box transcription factor TBX5, T-box protein 5, TBX5
Target/Specificity	This TBX5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human TBX5.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	TBX5 Antibody (N-term) 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.

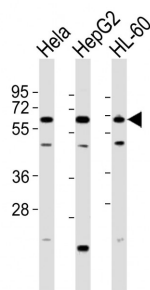
Background

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. This gene is closely linked to related family member T-box 3 (ulnar mammary syndrome) on human chromosome 12. The encoded 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.

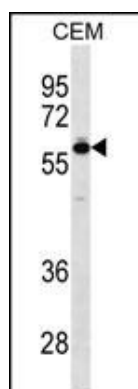
References

Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Stirnimann, C.U., et al. J. Mol. Biol. 400(1):71-81(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Hong, K.W., et al. J. Hum. Genet. 55(6):336-341(2010)

Images

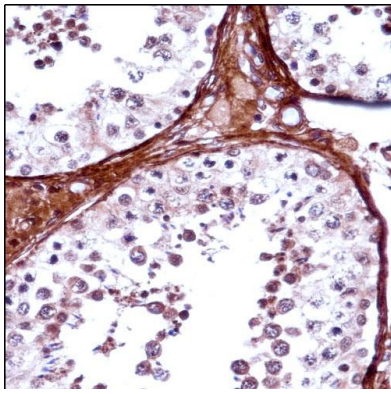


All lanes : Anti-TBX5 Antibody (N-term) at 1:2000 dilution
Lane 1: HeLa whole cell lysates Lane 2: HepG2 whole cell lysates Lane 3: HL-60 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 58 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



TBX5 Antibody (N-term) (Cat. #AP14687a) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the TBX5 antibody detected the TBX5 protein (arrow).

TBX5 Antibody (N-term)
(AP14687a) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue



followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of TBX5 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Citations

- [A Comprehensive TALEN-Based Knockout Library for Generating Human Induced Pluripotent Stem Cell-Based Models for Cardiovascular Diseases.](#)

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