

Rabbit anti-Human TBX1 Polyclonal Antibody | anti-TBX1 antibody

TBX1 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283803	Rabbit	Human	Western Blot, Immunofluorescence, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

TBX1; Polyclonal Antibody; TBX1 Antibody (C-term); T-box transcription factor TBX1; T-box protein 1; Testis-specific T-box protein; anti-TBX1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This TBX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 327-356 amino acids from the C-terminal region of human TBX1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	327-356
Sequence Length	495
Applicable Applications for anti-TBX1 antibody	WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human testis tissue reacted with TBX1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



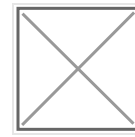
IF (Immunofluorescence)

Fluorescent confocal image of A2058 cell stained with TBX1 Antibody (C-term). A2058 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with TBX1 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). TBX1 immunoreactivity is localized to nucleus significantly.



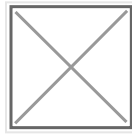
WB (Western Blot)

TBX1 Antibody (C-term) western blot analysis in HLVEC cell line lysates (35ug/lane). This demonstrates the TBX1 antibody detected the TBX1 protein (arrow).



WB (Western Blot)

Western blot analysis of lysate from HLVEC cell line, using TBX1 Antibody (C-term). AAA283803 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded H. breast section using TBX1 Antibody (C-term). AAA283803 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

ADDITIONAL INFORMATION

Related Product Information for anti-TBX1 antibody	TBX1 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 product shares 98% amino acid sequence identity with the mouse ortholog. DiGeorge syndrome (DGS)/velocardiofacial syndrome (VCFS), a common congenital disorder characterized by neural-crest-related developmental defects, has been associated with deletions of chromosome 22q11.2, where this gene has been mapped. Studies using mouse models of DiGeorge syndrome suggest a major role for this gene in the molecular etiology of DGS/VCFS. Several alternatively spliced transcript variants encoding different isoforms have been described for this gene.
Product Categories/Family for anti-TBX1 antibody	Crown Antibodies ; Neuroscience
References	Fernando, R.I., et al. J. Clin. Invest. 120(2):533-544(2010) Heike, C.L., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 88(1):54-63(2010) Beaujard, M.P., et al. Eur J Med Genet 52(5):321-327(2009) Shalaby, A.A., et al. Mod. Pathol. 22(8):996-1005(2009) Yamagishi, H., et al. Genes Dev. 17(2):269-281(2003) Gong, W., et al. J. Med. Genet. 38 (12), E45 (2001) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174711
NCBI GeneID	6899
NCBI Accession #	NP_005983.1 ; NP_542377.1 ; NP_542378.1
NCBI GenBank Nucleotide #	NM_005992.1
UniProt Accession #	O43435 ; O43436 ; Q96RJ2 ; C6G493 ; C6G494
Molecular Weight	43133
NCBI Official Full Name	T-box transcription factor TBX1 isoform B
NCBI Official Synonym Full Names	T-box 1
NCBI Official Symbol	TBX1
NCBI Official Synonym Symbols	DGS; TGA; VCF; CAFS; CTHM; DGCR; DORV; VCFS; TBX1C; CATCH22
NCBI Protein Information	T-box transcription factor TBX1
UniProt Protein Name	T-box transcription factor TBX1

UniProt Gene Name	TBX1
UniProt Synonym Gene Names	T-box protein 1
UniProt Entry Name	TBX1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tbx1-antibody-western-blot-immunofluorescence-immunohistochemistry-elisa/283803>