TBX20 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TBX20, Polyclonal Antibody
Full Product Name	TBX20, CT (TBX20, T-box transcription factor TBX20) (MaxLight 490)
Product Gene Name	anti-TBX20 antibody
Product Synonym Names	TBX20; T-box transcription factor TBX20
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human TBX20. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	49,232 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (35242042..35293711, complement). Location: 7p14.3
OMIM	606061
3D Structure	ModBase 3D Structure for Q9UMR3
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 308-335 in the C-terminal region of human TBX20, UniProt Accession #Q9UMR3.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-TBX20 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-TBX20 antibody	Western Blot (WB), FLISA
Application Notes for anti-TBX20 antibody	WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-TBX20 antibody	MBS6354189 is an antibody targeting TBX20. Also known as TBX20, CT (TBX20, T-box transcription factor TBX20) (MaxLight 490). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-TBX20 antibody	Ichikawa, S., et al. J. Bone Miner. Res. 25(8):1821-1829(2010). Posch, M.G., et al. J. Med. Genet. 47(4):230-235(2010). Macindoe, I., et al. J. Mol. Biol. 389(3):606-618(2009). Liu, C., et al. Eur J Med Genet 51(6):580-587(2008). Hammer, S., et al. J. Cell. Biochem. 104(3):1022-1033(2008).

Other Notes	Small volumes of anti-TBX20 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TBX20. It may not necessarily be applicable to this product.

NCBI GI #	261337146
NCBI GeneID	57057
NCBI Accession #	NP_001159692.1
UniProt Primary Accession #	Q9UMR3
UniProt Secondary Accession #	Q000T4; Q0IJ70; Q0VAS1; Q9Y2N5; A4D1Y6
UniProt Related Accession #	Q9UMR3
GenBank Nucleotide #	NM_001166220.1
NCBI Official Full Name	T-box transcription factor TBX20 isoform 2
NCBI Official Synonym Full Names	T-box 20
NCBI Official Symbol	TBX20
NCBI Official Synonym Symbols	ASD4
UniProt Protein Name	T-box transcription factor TBX20
Protein Family	T-box transcription factor
UniProt Gene Name	TBX20
UniProt Synonym Gene Names	T-box protein 20
UniProt Entry Name	TBX20_HUMAN
NCBI Protein Information	T-box transcription factor TBX20; T-box protein 20
NCBI Summary for TBX20	This gene encodes a T-box family member. The T-box family members share a common DNA binding domain, termed the T-box, and they are transcription factors involved in the regulation of developmental processes. This gene is essential for heart development. Mutations in this gene are associated with diverse cardiac pathologies, including defects in septation, valvulogenesis and cardiomyopathy. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]

UniProt Comments for TBX20	TBX20: Probable transcriptional regulator involved in developmental processes. Defects in TBX20 are the cause of atrial septal defect type 4 (ASD4). ASD4 is a congenital heart malformation characterized by incomplete closure of the wall between the atria resulting in blood flow from the left to the right atria. ASD4 patients show other heart abnormalities including defects in septation, chamber growth and valvulogenesis. ASD4 is not associated with defects in the cardiac conduction system or with non-cardiac abnormalities. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 7p14.3 Cellular Component: cytoplasm; nucleus Molecular Function: transcription factor activity Biological Process: transcription, DNA-dependent; blood circulation; lateral mesoderm formation; neuron migration; negative regulation of transcription from RNA polymerase II promoter; patterning of blood vessels; cell proliferation; visceral motor neuron differentiation; muscle contraction; dorsal/ventral pattern formation; endoderm formation; cardiac muscle morphogensis; positive regulation of transcription from RNA polymerase II promoter; heart looping; negative regulation of transcription, DNA-dependent; positive regulation of cardiac muscle cell proliferation Disease: Atrial Septal Defect 4
Research Articles on TBX20	**1.** Study identified one novel heterozygous sequence variant within the proximal promoter region of TBX20 gene in a ventricular septal defects patient, which inhibited transcriptional activities of TBX20 gene promoter; data provide new information to help understanding of genetic causes and molecular mechanisms of congenital heart disease.
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