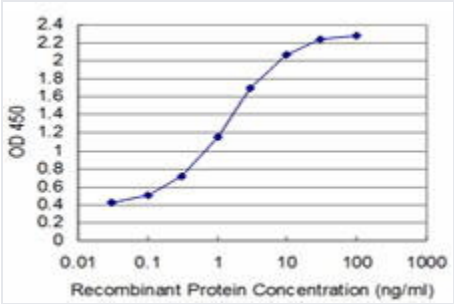
TBXT Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	T (TBXT), Monoclonal Antibody
Full Product Name	T (T, Brachyury Homolog (mouse), MGC104817, TFT) (APC)
Product Gene Name	anti-TBXT antibody
Product Synonym Names	T; Brachyury Homolog (mouse); MGC104817; TFT
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2A12
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified
Specificity	Recognizes T.
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 amo only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	47kDa
OMIM	182940
3D Structure	ModBase 3D Structure for O15178
Immunogen	T (NP_003172, 222aa-320aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	ERSDHKEMMEEPGDSQQPGYSQWGWLLPGTSTLCPPANPHPQFGGALSLPSTHSCDRYPTLRSHRSSPYPSPYAHRNNSPTYSDNSPACLSMLQSHD
Conjugate	APC
Product Categories/Family for anti-TBXT antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-TBXT antibody	Western Blot (WB)
Application Notes for anti-TBXT antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TBXT antibody	The protein encoded by this gene is an embryonic nuclear transcription factor that binds to a specific DNA element, the palindromic T-site. It binds throu a region in its N-terminus, called the T-box, and effects transcription of genes required for mesoderm formation and differentiation. The protein is localiz to notochord-derived cells. [provided by RefSeq]

Other Notes	Small volumes of anti-TBXT antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa 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.
Searchable Terms for TBXT purchase	MBS6167104 is an antibody targeting TBXT. Also known as T (T, Brachyury Homolog (mouse), MGC104817, TFT) (APC). Host: Mouse.



Testing Data of anti-TBXT antibody
Detection limit for recombinant GST tagged T is approximately 0.03ng/ml as a capture antibody.

ADDITIONAL DETAILS

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

NCBI GI #	4507339
NCBI GeneID	6862
NCBI Accession #	NP_003172
UniProt Primary Accession #	O15178
UniProt Related Accession #	O15178
GenBank Nucleotide #	NM_003181
NCBI Official Full Name	T-box transcription factor T isoform 1
NCBI Official Synonym Full Names	T-box transcription factor T
NCBI Official Symbol	TBXT
NCBI Official Synonym Symbols	T; TFT; SAVA
UniProt Protein Name	Brachyury protein
UniProt Synonym Protein Names	Protein T
Protein Family	T-box-containing protein
UniProt Gene Name	T
UniProt Entry Name	BRAC_HUMAN
NCBI Protein Information	T-box transcription factor T; brachyury protein
NCBI Summary for TBXT	The protein encoded by this gene is an embryonic nuclear transcription factor that binds to a specific DNA element, the palindromic T-site. It binds through a region in its N-terminus, called the T-box, and effects transcription of genes required for mesoderm formation and differentiation. The protein is localized to notochord-derived cells. Variation in this gene was associated with susceptibility to neural tube defects and chordoma. A mutation in this gene was found in a family with sacral agenesis with vertebral anomalies. [provided by RefSeq, Sep 2018]

UniProt Comments for TBXT	Brachyury: Involved in the transcriptional regulation of genes required for mesoderm formation and differentiation. Binds to a palindromic site (called T site) and activates gene transcription when bound to such a site. Genetic variations in T are associated with susceptibility to neural tube defects (NTD). NTD are common congenital malformations. Spina bifida, which results from malformations in the caudal region of the neural tube, is compatible with life but associated with significant morbidity, including lower limb paralysis. T is involved in susceptibility to the development of chordoma (CHDM). Chordomas are rare, clinically malignant tumors derived from notochordal remnants. They occur along the length of the spinal axis, predominantly in the sphenooccipital, vertebral and sacrococcygeal regions. They are characterized by slow growth, local destruction of bone, extension into adjacent soft tissues and rarely, distant metastatic spread. Susceptibility to development of chordomas is due to a T gene duplication. Protein type: Motility/polarity/chemotaxis; DNA-binding; Cell cycle regulation; Transcription factor Chromosomal Location of Human Ortholog: 6q27 Cellular Component: cytoplasm; nuclear chromatin; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; heart morphogenesis; somitogenesis; neural plate morphogenesis; embryonic skeletal development; mesoderm migration; notochord formation; negative regulation of transcription from RNA polymerase II promoter; Wnt receptor signaling pathway through beta-catenin; signal transduction; BMP signaling pathway; determination of anterior/posterior axis, embryo; positive regulation of cell proliferation; neural tube closure; penetration of zona pellucida; mesoderm development; vasculogenesis Disease: Neural Tube Defects; Sacral Agenesis With Vertebral Anomalies
Research Articles on TBXT	**1.** The lipodystrophic hotspot LMNA p.R482W mutation deregulates the mesodermal inducer T/Brachyury and early vascular differentiation gene networks in type 2 familial partial lipodystrophy.
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