TBX21 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TBX21, Polyclonal Antibody
Full Product Name	TBX21, NT (TBX21, TBET, TBLYM, T-box transcription factor TBX21, T-cell-specific T-box transcription factor T-bet, Transcription factor TBLYM) (MaxLight 650)
Product Gene Name	anti-TBX21 antibody
Product Synonym Names	TBX21; TBET; TBLYM; T-box transcription factor TBX21; T-cell-specific T-box transcription factor T-bet; Transcription factor TBLYM
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	58,328 Da
OMIM	phenotype 604895
3D Structure	ModBase 3D Structure for Q9UL17
Immunogen	TBX21 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 21-50 amino acids from the N-terminal region of human TBX21.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-TBX21 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-TBX21 antibody	Western Blot (WB), FLISA
Application Notes for anti-TBX21 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TBX21 antibody	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 the human ortholog of mouse Tbx21/Tbet gene. Studies in mouse show that Tbx21 protein is a Th1 cell-specific transcription factor that controls the expression of the hallmark Th1 cytokine, interferon-gamma (IFNG). Expression of the human ortholog also correlates with IFNG expression in Th1 and natural killer cells, suggesting a role for this gene in initiating Th1 lineage development from naive Th precursor cells.
Product References and Citations for anti-TBX21 antibody	Mohr, E., et al. Proc. Natl. Acad. Sci. U.S.A. 107(40):17292-17297(2010). Zhu, Y., et al. J. Immunol. 185(6):3174-3183(2010). Qu, Y., et al. J. Immunol. 185(5):2895-2902(2010). Schuurhof, A., et al. Pediatr. Pulmonol. 45(6):608-613(2010). Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010).

Other Notes	Small volumes of anti-TBX21 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.
Searchable Terms for TBX21 purchase	MBS6354202 is an antibody targeting TBX21. Also known as TBX21, NT (TBX21, TBET, TBLYM, T-box transcription factor TBX21, T-cell-specific T-box transcription factor T-bet, Transcription factor TBLYM) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TBX21. It may not necessarily be applicable to this product.

NCBI GI #	7019549
NCBI GeneID	30009
NCBI Accession #	NP_037483.1
UniProt Primary Accession #	Q9UL17
UniProt Related Accession #	Q9UL17
GenBank Nucleotide #	NM_013351.1
NCBI Official Full Name	T-box transcription factor TBX21
NCBI Official Synonym Full Names	T-box 21
NCBI Official Symbol	TBX21
NCBI Official Synonym Symbols	TBET; T-PET; T-bet; TBLYM
UniProt Protein Name	T-box transcription factor TBX21
UniProt Synonym Protein Names	T-cell-specific T-box transcription factor T-bet; Transcription factor TBLYM
Protein Family	T-box transcription factor
UniProt Gene Name	TBX21
UniProt Synonym Gene Names	TBET; TBLYM; T-box protein 21
UniProt Entry Name	TBX21_HUMAN
NCBI Protein Information	T-box transcription factor TBX21; T-box protein 21; T-box expressed in T cells; transcription factor TBLYM; T-cell-specific T-box transcription factor T-bet
UniProt Comments for TBX21	TBX21: Transcription factor that controls the expression of the TH1 cytokine, interferon-gamma. Initiates TH1 lineage development from naive TH precursor cells both by activating TH1 genetic programs and by repressing the opposing TH2 programs. T-cell specific. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 17q21.32 Cellular Component: cell soma; nucleus Molecular Function: transcription factor activity Biological Process: positive regulation of isotype switching to IgG isotypes; regulation of transcription, DNA-dependent; transcription, DNA-dependent; multicellular organismal development; response to virus; positive regulation of transcription, DNA-dependent; T cell differentiation Disease: Asthma, Nasal Polyps, And Aspirin Intolerance
Research Articles on TBX21	**1.** T-bet undergoes several post-translational protein modifications, such as phosphorylation and ubiquitination, which affect lineage commitment during T-cell differentiation. (Review)

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