

Rabbit anti-Human TBX21 Polyclonal Antibody | anti-TBX21 antibody

TBX21 Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288164	Rabbit	Human	Western Blot, ELISA, Immunofluorescence

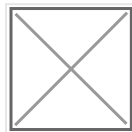
PRODUCT SYNONYMS

TBX21; Polyclonal Antibody; TBX21 Antibody (N-term); T-box transcription factor TBX21; T-box protein 21; T-cell-specific T-box transcription factor T-bet; Transcription factor TBLYM; TBET; TBLYM; anti-TBX21 antibody

PRODUCT SPECIFICATIONS

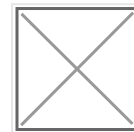
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This TBX21 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 22-50 amino acids from the N-terminal region of human TBX21.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal 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	22-50
Sequence Length	535
Applicable Applications for anti-TBX21 antibody	WB (Western Blot), ELISA, IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
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



WB (Western Blot)

TBX21 Antibody (N-term) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the TBX21 antibody detected the TBX21 protein (arrow).



IF (Immunofluorescence)

Fluorescent image of A549 cell stained with TBX21 Antibody (N-term). A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with TBX21 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). TBX21 immunoreactivity is localized to Nucleus significantly.

ADDITIONAL INFORMATION

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 Categories/Family for anti-TBX21 antibody	Immunology; Signal Transduction
References	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) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	7019549
NCBI GeneID	30009
NCBI Accession #	NP_037483.1
NCBI GenBank Nucleotide #	NM_013351.1
UniProt Accession #	Q9UL17
Molecular Weight	58328
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
NCBI Protein Information	T-box transcription factor TBX21
UniProt Protein Name	T-box transcription factor TBX21
UniProt Gene Name	TBX21
UniProt Synonym Gene Names	TBET; TBLYM; T-box protein 21
UniProt Entry Name	TBX21_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.