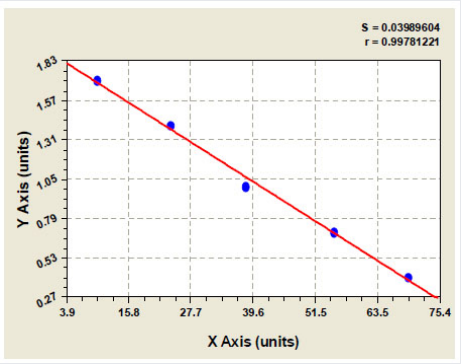
T-Box Transcription Factor TBX21 (TBX21) ELISA Kit for Monkey

PRODUCT OVERVIEW

Product Name	T-box transcription factor TBX21, ELISA Kit
Full Product Name	Monkey T-box transcription factor TBX21 ELISA Kit
Product Gene Name	TBX21 elisa kit
Species Reactivity	Monkey
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL.
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	58,328 Da
OMIM	604895
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for TBX21 elisa kit	Signal Transduction
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for TBX21 elisa kit	**Intended Uses:** This TBX21 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Monkey TBX21. This ELISA kit for research use only! **Principle of the Assay:** TBX21 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-TBX21 antibody and an TBX21-HRP conjugate. The assay sample and buffer are incubated together with TBX21-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the TBX21 concentration since TBX21 from samples and TBX21-HRP conjugate compete for the anti-TBX21 antibody binding site. Since the number of sites is limited, as more sites are occupied by TBX21 from the sample, fewer sites are left to bind TBX21-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The TBX21 concentration in each sample is interpolated from this standard curve.
Other Notes	Small volumes of TBX21 elisa kit 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	MBS745420 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the T-box transcription factor TBX21, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing TBX21. The ELISA analytical biochemical technique of the MBS745420 kit is based on TBX21 antibody-TBX21 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TBX21 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, TBX21. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of TBX21 elisa kit

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 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
NCBI Summary for TBX21	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. [provided by RefSeq, Jul 2008]

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; positive regulation of transcription, DNA-dependent; response to virus; multicellular organismal development; T cell differentiation Disease: Asthma, Nasal Polyps, And Aspirin Intolerance
Research Articles on TBX21	**1.** genetic polymorphism is associated with chronic immune thrombocytopenia in Chinese population
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