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TBX21 Antibody (monoclonal) (M07)

Mouse monoclonal antibody raised against a partial recombinant TBX21.
Catalog # AT4167a

Product Information

Application	WB, E
Primary Accession	Q9UL17
Other Accession	BC039739
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3D7
Calculated MW	58328

Additional Information

Gene ID	30009
Other Names	T-box transcription factor TBX21, T-box protein 21, T-cell-specific T-box transcription factor T-bet, Transcription factor TBLYM, TBX21, TBET, TBLYM
Target/Specificity	TBX21 (AAH39739.1, 387 a.a. ~ 486 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TBX21 Antibody (monoclonal) (M07) is for research use only and not for use in diagnostic or therapeutic procedures.

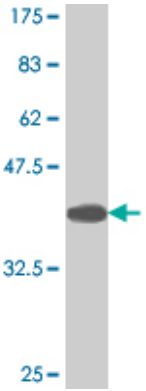
Background

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.

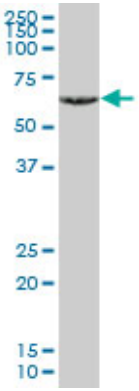
References

Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891. Interleukin-9 polymorphism in infants with respiratory syncytial virus infection: an opposite effect in boys and girls. Schuurhof A, et al. Pediatr Pulmonol, 2010 Jun. PMID 20503287. Association of TBX21 gene haplotypes in a Chinese population with systemic lupus erythematosus. You Y, et al. Scand J Rheumatol, 2010 May. PMID 20429676. Lck mediates Th2 differentiation through effects on T-bet and GATA-3. Kemp KL, et al. J Immunol, 2010 Apr 15. PMID 20237292. The mutations of Th1 cell-specific T-box transcription factor may be associated with a predominant Th2 phenotype in gastric cancers. Yang P, et al. Int J Immunogenet, 2010 Apr. PMID 20193034.

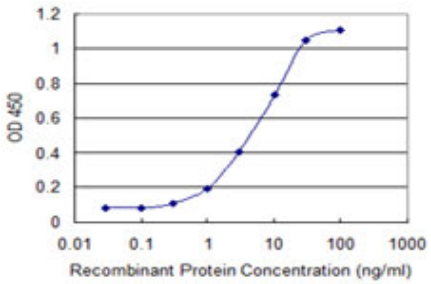
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



TBX21 monoclonal antibody (M07), clone 3D7. Western Blot analysis of TBX21 expression in NIH/3T3 ((Cat # AT4167a)



Detection limit for recombinant GST tagged TBX21 is 0.1 ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.