

## **TBX21 Antibody (monoclonal) (M10)**

Mouse monoclonal antibody raised against a partial recombinant TBX21.

Catalog # AT4168a

### **Specification**

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#### **TBX21 Antibody (monoclonal) (M10) - Product Information**

Application	WB
Primary Accession	<a href="#">O9UL17</a>
Other Accession	<a href="#">NM_013351</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	58328

#### **TBX21 Antibody (monoclonal) (M10) - 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 (NP\_037483, 400 a.a. ~ 535 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

##### **Dilution**

WB~~1:500~1000

##### **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) (M10) is for research use only and not for use in diagnostic or therapeutic procedures.

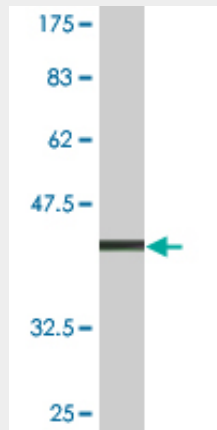
#### **TBX21 Antibody (monoclonal) (M10) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

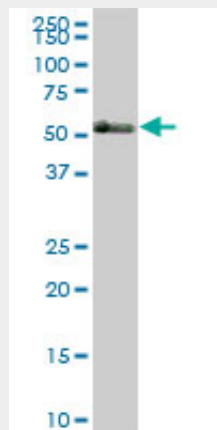
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### TBX21 Antibody (monoclonal) (M10) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (40.59 kDa) .



TBX21 monoclonal antibody (M10), clone 2F10. Western Blot analysis of TBX21 expression in human spleen.

### TBX21 Antibody (monoclonal) (M10) - 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.

### TBX21 Antibody (monoclonal) (M10) - 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.