

# T-bet/Tbx21 Rabbit PolymAb®

Catalog No.: A23414PM

## Basic Information

### Observed MW

70kDa

### Calculated MW

58kDa

### Category

Primary antibody

### Applications

WB,IHC-P,IP,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC61889\_ARC61564

## 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.

## Recommended Dilutions

**WB** 1:1000 - 1:10000

**IHC-P** 1:200 - 1:800

**IP** 0.5µg-4µg antibody for  
300µg-500µg extracts of  
whole cells

**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Contact

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## Immunogen Information

### Gene ID

30009

### Swiss Prot

Q9UL17

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 322-535 of human T-bet/Tbx21(NP\_037483.1).

### Synonyms

TBET; IMD88; T-PET; T-bet; TBLYM

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

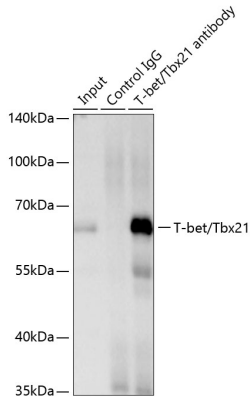
Affinity purification

### Storage

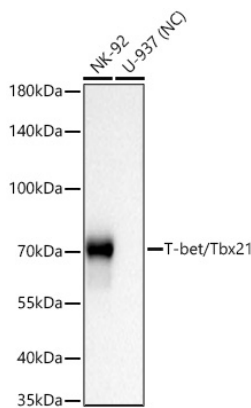
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

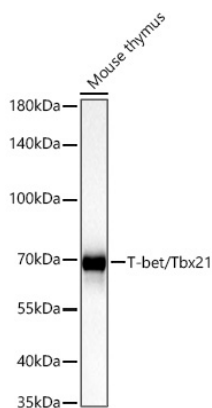
## Validation Data



Immunoprecipitation of T-bet/Tbx21 from 400 µg extracts of NK-92 cells was performed using 1 µg of T-bet/Tbx21 Rabbit PolymAb (A23414PM). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using T-bet/Tbx21 Rabbit PolymAb (A23414PM) at a dilution of 1:1000.



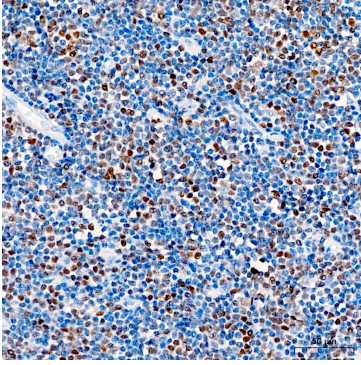
Western blot analysis of various lysates using T-bet/Tbx21 Rabbit PolymAb® (A23414PM) at 1:5000 dilution incubated overnight at 4°C.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Negative control (NC): U-937  
Exposure time: 10s.



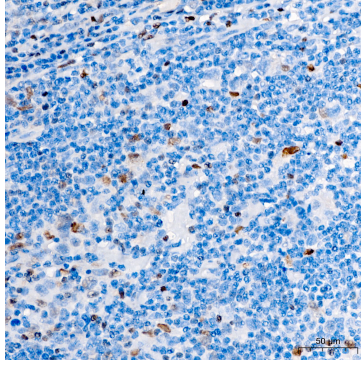
Western blot analysis of lysates from Mouse thymus using T-bet/Tbx21 Rabbit PolymAb® (A23414PM) at 1:1000 dilution incubated overnight at 4°C.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 45s.

## Validation Data

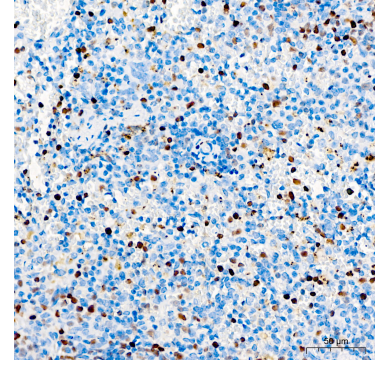
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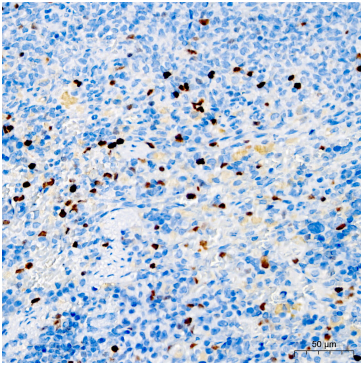
Immunohistochemistry analysis of paraffin-embedded Human peripheral T-cell lymphoma tissue using T-bet/Tbx21 Rabbit PolymAb® (A23414PM) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human anaplastic large cell lymphoma tissue using T-bet/Tbx21 Rabbit PolymAb® (A23414PM) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using T-bet/Tbx21 Rabbit PolymAb® (A23414PM) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using T-bet/Tbx21 Rabbit PolymAb® (A23414PM) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.