

For Research Use Only

# TBX21/T-bet Polyclonal antibody

Catalog Number: 13700-1-AP

33 Publications



## Basic Information

Catalog Number:

13700-1-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4618

GenBank Accession Number:

BC039739

GeneID (NCBI):

30009

ENSEMBL Gene ID:

ENSG00000073861

UNIPROT ID:

Q9UL17

Full Name:

T-box 21

Calculated MW:

535 aa, 58 kDa

Observed MW:

60-62 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:50-1:500

## Applications

Tested Applications:

WB, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Positive Controls:

WB: NK-92 cells, A549 cells, mouse thymus tissue, RAW 264.7 cells

IP: mouse thymus tissue,

IF/ICC: NK-92 cells,

## Background Information

TBX21 is a transcription factor that drives the Th1 immune response primarily through promoting expression of the IFN- $\gamma$  gene. TBX21 initiates TH1 lineage development from naive TH precursor cells both by activating TH1 genetic programs and by repressing the opposing TH2 programs. It has also been shown to play an influential role in inflammatory processes such as inflammatory bowel disease, autoimmune diseases such as rheumatoid arthritis, and immune-mediated conditions like asthma.

## Notable Publications

| Author            | Pubmed ID | Journal          | Application |
|-------------------|-----------|------------------|-------------|
| Shi-Jie Bi        | 34508802  | J Ethnopharmacol | IHC         |
| Raymond M Johnson | 29158429  | Infect Immun     | WB          |
| Weizhen Li        | 34790117  | Front Pharmacol  | WB          |

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

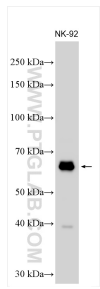
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

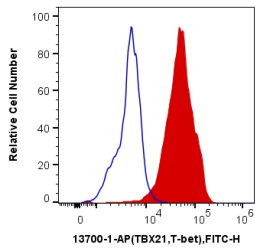
W: [ptgcn.com](http://ptgcn.com)

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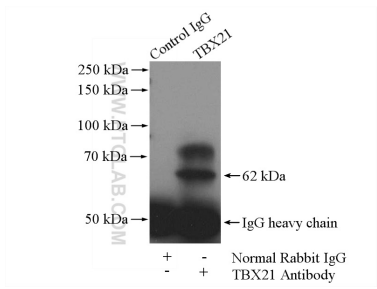
Selected Validation Data



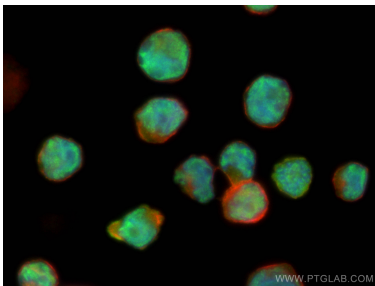
NK-92 cells were subjected to SDS PAGE followed by western blot with 13700-1-AP (TBX21/T-bet antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1X10<sup>6</sup> NK92 were intracellularly stained with 0.4 ug Anti-Human TBX21/T-bet (13700-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug x. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



IP result of anti-TBX21/T-bet (IP:13700-1-AP, 4ug; Detection:13700-1-AP 1:300) with mouse thymus tissue lysate 2800ug.



Immunofluorescent analysis of (4% PFA) fixed NK-92 cells using TBX21,T-bet antibody (13700-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).