TBX21/T-bet Polyclonal antibody

Catalog Number:13700-1-AP **35 Publications**

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Basic Information

Catalog Number:
13700-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop;

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
FC (Intra): 0.40 ug per 10^6 cells in a 100 μl suspension

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,

FC (Intra) : NK92,

Background Information

TBX21 is a transcription factor that drives the Th1 immune response primarily through promoting expression of the IFN-γ 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℃. 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
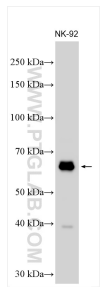
*** 20ul sizes contain 0.1% BSA

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.
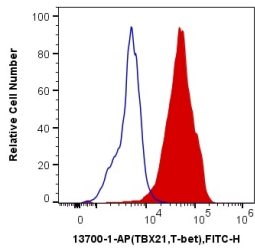
1X10^6 NK92 were intracellularly stained with 0.4 ug Anti-Human TBX21/T-bet (13700-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug x. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).
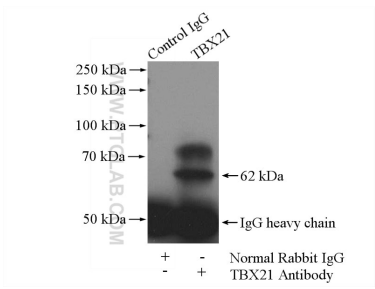
IP result of anti-TBX21/T-bet (IP:13700-1-AP, 4ug; Detection:13700-1-AP 1:300) with mouse thymus tissue lysate 2800ug.
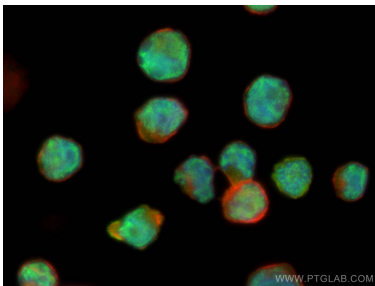
Immunofluorescent analysis of (4% PFA) fixed NK-92 cells using TBX21,T-bet antibody (13700-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).