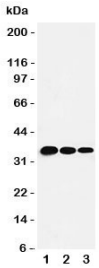
T-bet Antibody / Th1 Transcription Factor Antibody (R31106)

Catalog No.	Formulation	Size
R31106	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q9UL17
Applications	Western blot: 0.5-1ug/ml
Limitations	This T-bet Antibody / Th1 Transcription Factor Antibody is available for research use only.



T-bet Antibody with Recombinant Human TBX21 WB. Western blot testing of T-bet Antibody / Th1 Transcription Factor Antibody with recombinant human TBX21 protein containing a tag. Lane 1: 5 ng; Lane 2: 2.5 ng; Lane 3: 1.25 ng. The recombinant protein is detected at approximately 35 kDa. This T-bet Antibody demonstrates detection of recombinant human TBX21 across the tested protein amounts.

Description

T-bet Antibody / Th1 Transcription Factor Antibody recognizes TBX21, a member of the T-box family of DNA-binding transcription factors. Commonly known as T-bet, TBX21 plays a central role in immune cell differentiation and is particularly associated with the development and function of T helper 1 (Th1) cells. T-box family proteins contain a conserved DNA-binding domain that enables regulation of gene-expression programs involved in cellular differentiation and development.

T-bet is a major transcriptional regulator of Th1 lineage development. Its expression promotes differentiation of naive

CD4-positive T cells toward the Th1 phenotype and contributes to the establishment of characteristic Th1 gene-expression patterns. One of its best-characterized functions is activation of IFNG, which encodes interferon gamma, an important cytokine in cell-mediated immune responses. Expression of TBX21 and IFNG is also closely associated in natural killer cells.

The functions of T-bet extend beyond conventional Th1 cells, with the protein participating in transcriptional regulation in several lymphocyte populations. Its influence on immune differentiation and effector function has made TBX21 an important research target in studies of host defense, inflammation, immune-mediated disease and tumor immunology. A Th1 Transcription Factor Antibody can therefore be useful for investigating the molecular mechanisms connecting transcriptional regulation with immune cell identity and function.

This rabbit polyclonal antibody was generated against the human T-bet C-terminal peptide DKEAEGQFYNYFPN and purified by antigen affinity chromatography. The reagent has demonstrated reactivity with human, mouse and rat TBX21. NSJ Bioreagents provides this T-bet Antibody for research into TBX21 expression, Th1 differentiation, interferon-associated immune responses and transcriptional regulation.

For additional information on T-bet biology and tissue-based validation, visit our TBX21 Antibody / T-bet Transcription Factor Antibody page.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the T-bet Antibody / Th1 Transcription Factor Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human T-box expressed in T cells (DKEAEGQFYNYFPN) was used as the immunogen for this T-bet antibody.

Storage

After reconstitution, the T-bet antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

T-bet antibody, TBX21 antibody, T-box transcription factor 21 antibody, TBET antibody, T-PET antibody, TBLYM antibody

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