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T-bet/Tbx21 Rabbit mAb

Catalog No.: A25647 Recombinant

Basic Information

Observed MW
58-68kDa

Calculated MW
58kDa

Category
Primary antibody

Applications
WB,IHC-P,FC (intra),ELISA

Cross-Reactivity
Human

CloneNo number
ARC61886

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 - 1:5000
IHC-P	1:200 - 1:800
FC (intra)	1:500 - 1:1000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
30009

Swiss Prot
Q9UL17

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
TBX21; T-PET; T-bet; TBET; TBLYM; T-box 21

Contact

400-999-6126

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Product Information

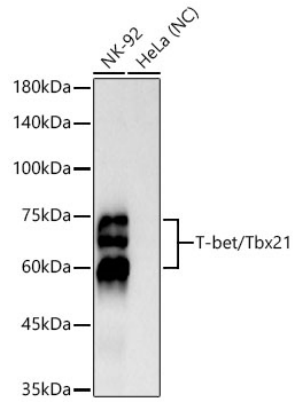
Source
Rabbit

Isotype
IgG

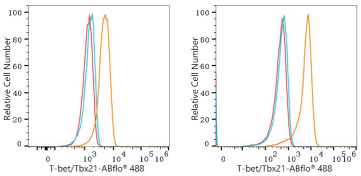
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

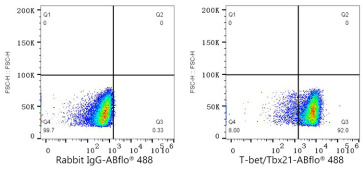
Validation Data



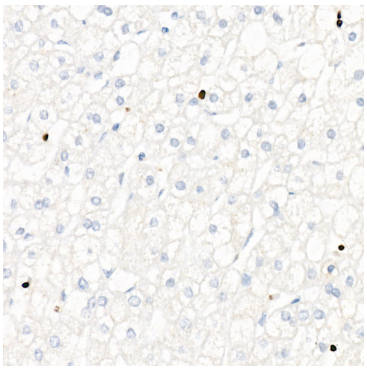
Western blot analysis of various lysates using T-bet/Tbx21 Rabbit mAb (A25647) at 1:1500 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): HeLa.
Exposure time: 30s.



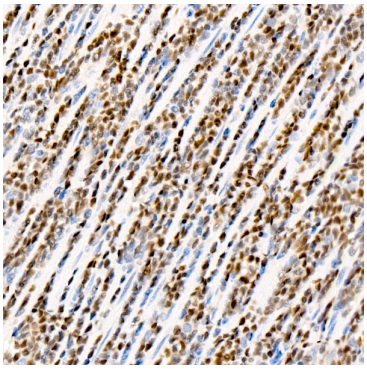
Flow cytometry: 1X10^6 HeLa cells (negative control,left) and NK-92 cells (right) were intracellularly-stained with T-bet/Tbx21 Rabbit mAb (A25647,2 µg/mL,orange line) or Rabbit IgG isotype control (AC042,2 µg/mL,blue line), followed by FITC conjugated goat anti-Rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



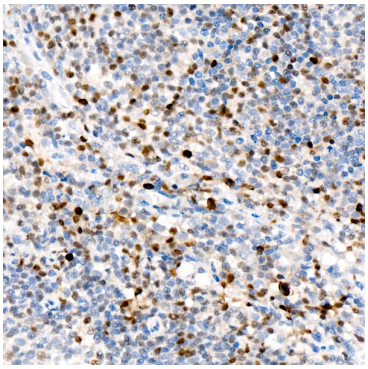
Flow cytometry: 1X10^6 NK-92 cells were intracellularly-stained with Rabbit IgG isotype control (AC042,2 µg/mL,left) or T-bet/Tbx21 Rabbit mAb (A25647,2 µg/mL,right), followed by FITC conjugated goat anti-Rabbit pAb staining.



Immunohistochemistry analysis of paraffin-embedded Human liver (negative control sample) tissue using T-bet/Tbx21 Rabbit mAb (A25647) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human peripheral T cell lymphoma tissue using T-bet/Tbx21 Rabbit mAb (A25647) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using T-bet/Tbx21 Rabbit mAb (A25647) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.