

Product datasheet

Anti-T-bet / Tbx21 antibody ab53174

1 References 2 Images

Overview

Product name	Anti-T-bet / Tbx21 antibody
Description	Rabbit polyclonal to T-bet / Tbx21
Host species	Rabbit
Tested applications	Suitable for: IP, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 200 - 300 of Human T-bet/Tbx21. Read Abcam's proprietary immunogen policy (Peptide available as ab69655 .)
Positive control	This antibody gave a positive signal in the following lysates: Jurkat Whole Cell, Jurkat Nuclear, Jurkat Whole Cell - Staurosporine Treated (24hr, 500nM), E14Tg2a Whole Cell

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab53174** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

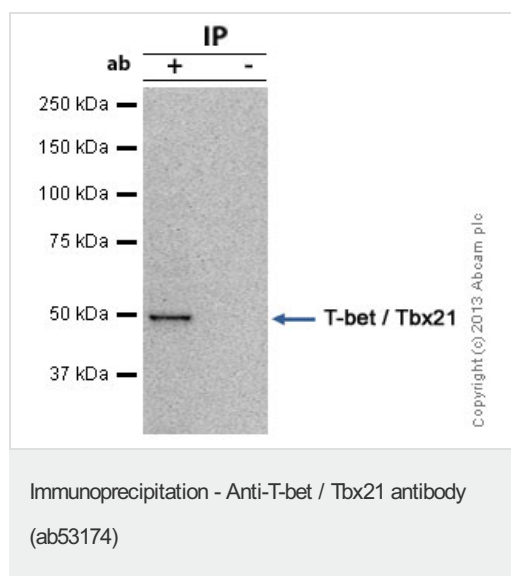
Application	Abreviews	Notes
IP		Use a concentration of 5 µg/ml.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 53 kDa (predicted molecular weight: 58 kDa).

Target

Function	Transcription factor that controls the expression of the TH1 cytokine, interferon-gamma. Initiates TH1 lineage development from naive TH precursor cells both by activating TH1 genetic programs and by repressing the opposing TH2 programs.
Tissue specificity	T-cell specific.
Involvement in disease	Genetic variations in TBX21 are associated with susceptibility to asthma with nasal polyps and aspirin intolerance (ANPAI) [MIM:208550]. A condition consisting of asthma, aspirin sensitivity and nasal polyposis. Nasal polyposis is due to chronic inflammation of the paranasal sinus mucosa, leading to protrusion of edematous polyps into the nasal cavities.
Sequence similarities	Contains 1 T-box DNA-binding domain.
Cellular localization	Nucleus.

Images



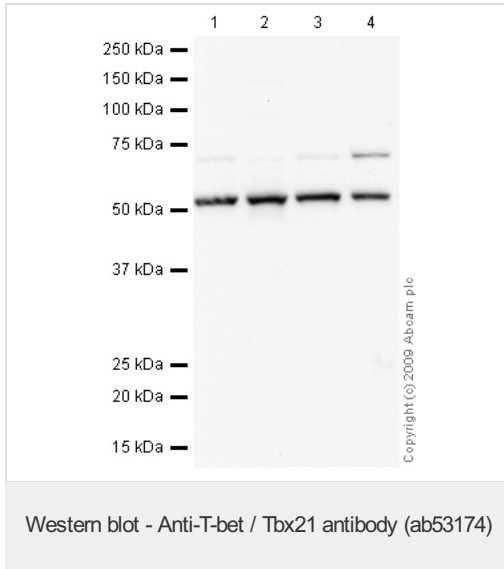
T-bet / Tbx21 was immunoprecipitated using 0.5mg Jurkat whole cell extract, 5µg of Rabbit polyclonal to and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, Jurkat whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab53174.

Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) ([ab99697](#)).

Band: 53kDa; T-bet / Tbx21



All lanes : Anti-T-bet / Tbx21 antibody (ab53174) at 1 µg/ml

Lane 1 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

Lane 2 : Jurkat nuclear extract lysate ([ab14844](#))

Lane 3 : Jurkat Whole Cell Lysate - Staurosporine Treated (24hr, 500nM)

Lane 4 : E14Tg2a (Mouse embryonic stem cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.

Predicted band size: 58 kDa

Observed band size: 53 kDa

[why is the actual band size different from the predicted?](#)

Additional bands at: 70 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 3 minutes

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