

## Product datasheet

# Anti-T-bet / Tbx21 antibody [4B10] ab91109

★★★★☆ 2 Abreviews 8 References 画像数 4

### 製品の概要

製品名	Anti-T-bet / Tbx21 antibody [4B10]
製品の詳細	Mouse monoclonal [4B10] to T-bet / Tbx21
アプリケーション	適用あり: IHC-P, WB, IP, Flow Cyt
種交差性	交差種: Mouse, Human
免疫原	<i>E. coli</i> protein
ポジティブ・コントロール	Th1 polarized Mouse CD4+ T cells. This antibody gave a positive result in IHC in the following FFPE tissue: Human normal tonsil.

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.09% Sodium Azide Constituents: PBS, pH 7.2
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	4B10
アイソタイプ	IgG1

### アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab91109** in the following tested applications.

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

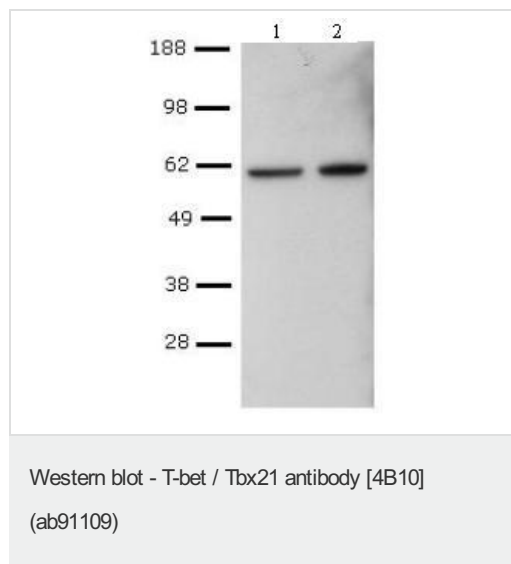
アプリケーション	Abreviews	特記事項
IHC-P		Use a concentration of 5 µg/ml.
WB	★★★★☆	Use a concentration of 2 µg/ml. Predicted molecular weight: 58 kDa.

アプリケーション	Abreviews	特記事項
IP		Use at an assay dependent concentration.
Flow Cyt		Use 2µg for 10 <sup>6</sup> cells. <a href="#">ab170190</a> -Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

## ターゲット情報

機能	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.
組織特異性	T-cell specific.
関連疾患	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.
配列類似性	Contains 1 T-box DNA-binding domain.
細胞内局在	Nucleus.

## 画像



**All lanes** : Anti-T-bet / Tbx21 antibody [4B10] (ab91109) at 2 µg/ml

**Lane 1** : Lysates of CD4+ T cells (control)

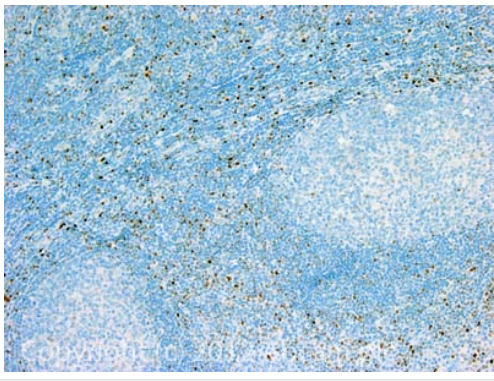
**Lane 2** : Lysates of PMA and Ionomycin reactivated CD4+ T cells

### Secondary

HRP anti-mouse IgG

**Predicted band size** : 58 kDa

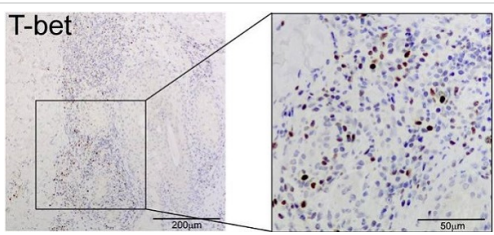
CD4+ T cells were sorted from Mouse spleen, activated with anti-mouse CD3 and anti-mouse CD28, followed by culture in Th1 polarizing conditions, and reactivation with PMA and Ionomycin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-T-bet / Tbx21 antibody [4B10] (ab91109)

IHC image of T-bet / Tbx21 staining in Human normal tonsil formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab91109, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

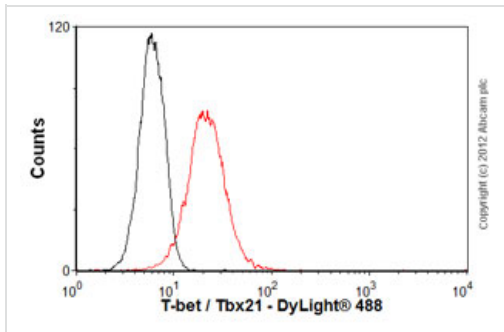
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-T-bet / Tbx21 antibody [4B10] (ab91109)

Kelhälä HL et al., PLoS One, 9:e105238 (2014), Fig 5.;doi: 10.1371/journal.pone.0105238

ab91109 staining T-bet in Human acne lesion tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with 10% formaldehyde and antigen retrieval was by heat mediation performed in a microwave oven. Samples were incubated with primary antibody (1/200).



Flow Cytometry-Anti-T-bet / Tbx21 antibody [4B10]  
(ab91109)

Overlay histogram showing Jurkat cells stained with ab91109 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab91109, 2 $\mu$ g/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2 $\mu$ g/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Jurkat cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.co.jp/abpromise> or contact our technical team.

### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors