

**bs-3599R****[ Primary Antibody ]****Bioss**  
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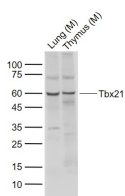
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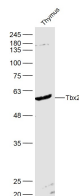
400-901-9800

**Tbx21 Rabbit pAb****— DATASHEET —**

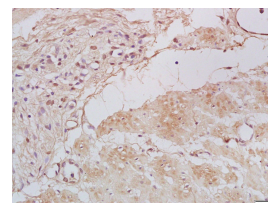
<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 30009 <b>Target:</b> Tbx21 <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human Tbx21: 201-300/535. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> 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. [provided by RefSeq, Jul 2008].	<b>Isotype:</b> IgG <b>SWISS:</b> Q9UL17	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500) <b>Reactivity:</b> Human, Mouse (predicted: Rat, Pig, Cow, Dog, Horse) <b>Predicted MW.:</b> 59 kDa <b>Subcellular Location:</b> Nucleus
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**— VALIDATION IMAGES —**

Sample: Lane 1: Lung (Mouse) Lysate at 40 ug  
Lane 2: Thymus (Mouse) Lysate at 40 ug  
Primary: Anti-Tbx21 (bs-3599R) at 1/500 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 58 kD  
Observed band size: 60 kD



Sample: Thymus (Mouse) Lysate at 40 ug  
Primary: Anti-Tbx21 (bs-3599R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 59 kD  
Observed band size: 59 kD



Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-Tbx21/Tbet Polyclonal Antibody, Unconjugated(bs-3599R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining

**— SELECTED CITATIONS —**

- **[IF=13.258]** Chen et al. Water-soluble chitosan inhibits nerve growth factor and attenuates allergic inflammation in mite allergen-induced allergic rhinitis. J Allergy Clin Immunol. 2017 Oct;140(4):1146-1149.e8. IHC ;Mouse. 28412394
- **[IF=7.9]** Tiantian Wang. et al. Baicalein alleviates cardiomyocyte death in EAM mice by inhibiting the JAK-STAT1/4 signalling pathway. PHYTOMEDICINE. 2024 Jun;128:155558 IF ;Mouse. 38547614
- **[IF=6.78]** Le Lv. et al. Taurohyodeoxycholic acid alleviates trinitrobenzene sulfonic acid induced ulcerative colitis via

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regulating Th1/Th2 and Th17/Treg cells balance. LIFE SCI. 2023 Apr;318:121501 WB ;Mouse. 36801213

- **[IF=5.988]** Yang Liu. et al. Platycodon grandiflorus polysaccharides deeply participate in the anti-chronic bronchitis effects of platycodon grandiflorus decoction, a representative of "the lung and intestine are related". FRONT PHARMACOL. 2022 Sep 7;13:927384 IHC ;Rat. 36160385
- **[IF=4.8]** Meng Liu. et al. Puerarin exerts an inhibitory effect on inflammatory infiltration in the cardiac tissue of EAM mice by regulation of the TNF- $\alpha$ /CCL2/CCR2 signal pathway. INT IMMUNOPHARMACOL. 2025 Jun;157:114721 ;. 40300354