Product name: Anti-T-bet / Tbx21 antibody [EPR9301]

Description: Rabbit monoclonal [EPR9301] to T-bet / Tbx21

Host species: Rabbit

Tested applications: Suitable for: IHC-P

Species reactivity: Reacts with: Human

Immunogen: Synthetic peptide within Human T-bet/ Tbx21 aa 1-100 (N terminal). The exact sequence is proprietary.

Database link: Q9UL17

Positive control: Human T cell lymphoma tissue.

General notes: Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

Properties:

Form: Liquid


Storage buffer: Preservative: 0.01% Sodium azide
Constituents: 40% Glycerol, 0.05% BSA, 59% PBS

Purity: Protein A purified

Clonality: Monoclonal

Clone number: EPR9301

Isotype: IgG
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.

Applications

Our Abpromise guarantee covers the use of ab150440 in the following tested applications.

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

<table>
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<th>Application</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. For unpurified use at 1/250-1/500. See IHC antigen retrieval protocols.</td>
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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

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Images

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human T cell lymphoma tissue labelling T-bet / Tbx21 with unpurified ab150440 at 1/250 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-T-bet / Tbx21 antibody [EPR9301] (ab150440)
Immunohistochemical analysis of paraffin embedded Human Hodgkin's lymphoma tissue using unpurified ab150440 showing +ve staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human Hodgkin lymphoma tissue sections labeling T-bet/Tbx21 with Purified ab150440 at 1:1000 dilution (1.23 μg/ml). Heat mediated antigen retrieval was performed using Perform heat mediated antigen retrieval using EDTA Buffer, pH9.0. Tissue was counterstained with Hematoxylin. ImmunoHistoprobe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.
Immunohistochemical analysis of paraffin embedded Human Normal spleen tissue using unpurified ab150440 showing +ve staining.

Immunohistochemical analysis of paraffin embedded normal Human tonsil tissue using unpurified ab150440 showing -ve staining.

Immunohistochemical analysis of paraffin embedded Human T cell lymphoma tissue using unpurified ab150440 showing +ve staining.

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