Product datasheet

Anti-T-bet / Tbx21 antibody [EPR9301] ab150440

Overview

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 instructions
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.

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

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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.

Target

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.

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

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