Product datasheet

Anti-IL-21 antibody ab53655

Overview

Product name  Anti-IL-21 antibody
Description  Goat polyclonal to IL-21
Host species  Goat
Tested applications  Suitable for: IHC-P, ELISA, ICC
Species reactivity  Reacts with: Human
Immunogen  Synthetic peptide corresponding to Human IL-21 aa 78-109.
  Sequence:
  CFQKAQLKSANTGNNERIINVSIKKLKRKPPS
Positive control  Human spleen and human tonsil. IHC-P: human hodgkins lymphoma FFPE tissue sections

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Upon delivery aliquot. Avoid freeze / thaw cycle.
Storage buffer  Preservative: 0.1% Sodium Azide
               Constituents: PBS, 1mg/ml BSA, pH 7.2
Purity  Immunogen affinity purified
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab53655 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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<th>Application</th>
<th>Notes</th>
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<td>IHC-P</td>
<td>Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
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Function
Cytokine with immunoregulatory activity. May promote the transition between innate and adaptive immunity. Induces the production of IgG(1) and IgG(3) in B-cells (By similarity). May play a role in proliferation and maturation of natural killer (NK) cells in synergy with IL15. May regulate proliferation of mature B- and T-cells in response to activating stimuli. In synergy with IL15 and IL18 stimulates interferon gamma production in T-cells and NK cells. During T-cell mediated immune response may inhibit dendritic cells (DC) activation and maturation.

Tissue specificity
Expressed in activated CD4-positive T-cells but not in CD8-positive T-cells, B-cells, or monocytes.

Sequence similarities
Belongs to the IL-15/IL-21 family.

Cellular localization
Secreted.

Images
IHC image of IL-21 staining in human Hodgkins lymphoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol B. 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 ab53655, 5µg/ml, for 15 mins at room temperature. A donkey anti-goat biotinylated secondary antibody was used to detect the primary, and visualized using an HRP conjugated ABC 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.

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