Product datasheet

Anti-IL-17F antibody ab46000

Overview

Product name: Anti-IL-17F antibody
Description: Rabbit polyclonal to IL-17F
Host species: Rabbit
Tested applications: Suitable for: IHC-P, ELISA, WB
Species reactivity: Reacts with: Human
Immunogen: Recombinant full length protein corresponding to Human IL-17F aa 31-163. highly pure (>98%) recombinant hIL-17F (human IL-17F)
Sequence:
MRKIPKVGH TFFQKPESCP VPGGSMKL DI GIEENQRVS MSRNIESRST SPWNYTVTWD PNRYPSEVQ AQCRNLGCIN AQGKEDISMN SVPIQQETLV VRKIQGCSV SFQLEKVLVT VGCTCPVIIIHVI

Database link: Q96PD4

Properties

Form: Lyophilised: Reconstitute in sterile water to a concentration of 1.0 mg/ml Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.
Storage buffer: pH: 7.40
Purity: Immunogen affinity purified
Purification notes: Anti-hIL-17F specific antibody was purified by affinity chromatography employing immobilized hIL-17F matrix.
Clonality: Polyclonal
Isotype: IgG
Function

Ligand for IL17RA and IL17RC (PubMed:17911633). The heterodimer formed by IL17A and IL17F is a ligand for the heterodimeric complex formed by IL17RA and IL17RC (PubMed:18684971). Involved in stimulating the production of other cytokines such as IL6, IL8 and CSF2, and in regulation of cartilage matrix turnover (PubMed:11591732, PubMed:11591768, PubMed:11574464). Also involved in stimulating the proliferation of peripheral blood mononuclear cells and T-cells and in inhibition of angiogenesis (PubMed:11591732). Plays a role in the induction of neutrophilia in the lungs and in the exacerbation of antigen-induced pulmonary allergic inflammation.

Tissue specificity

Expressed in activated, but not resting, CD4+ T-cells and activated monocytes.

Involvement in disease

Candidiasis, familial, 6

Sequence similarities

Belongs to the IL-17 family.

Cellular localization

Secreted.

Applications

Our Abpromise guarantee covers the use of ab46000 in the following tested applications.

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

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td>Use a concentration of 1 µg/ml.</td>
<td></td>
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<tr>
<td>ELISA</td>
<td>Use a concentration of 0.5 - 2 µg/ml. To detect IL17F by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with ab46001 as a detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant hIL17F.</td>
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<tr>
<td>WB</td>
<td>Use a concentration of 0.1 - 0.2 µg/ml. Predicted molecular weight: 18 kDa.</td>
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Target

| Function | Ligand for IL17RA and IL17RC (PubMed:17911633). The heterodimer formed by IL17A and IL17F is a ligand for the heterodimeric complex formed by IL17RA and IL17RC (PubMed:18684971). Involved in stimulating the production of other cytokines such as IL6, IL8 and CSF2, and in regulation of cartilage matrix turnover (PubMed:11591732, PubMed:11591768, PubMed:11574464). Also involved in stimulating the proliferation of peripheral blood mononuclear cells and T-cells and in inhibition of angiogenesis (PubMed:11591732). Plays a role in the induction of neutrophilia in the lungs and in the exacerbation of antigen-induced pulmonary allergic inflammation. |
| Tissue specificity | Expressed in activated, but not resting, CD4+ T-cells and activated monocytes. |
| Involvement in disease | Candidiasis, familial, 6 |
| Sequence similarities | Belongs to the IL-17 family. |
| Cellular localization | Secreted. |

Images

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-17F antibody (ab46000)

ab46000 (1µg/ml) staining IL17F in human ovary using an automated system (DAKO Autostainer Plus). Using this protocol there is strong staining of the cytoplasm of the corpus luteum. Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary
antibody concentration and incubation time is recommended. Signal amplification may be required.

To detect IL17F by sandwich ELISA (using 100 μl/well antibody solution) a concentration of 0.5 - 2.0 μg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with ab46001 as a detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant hIL17F.

ELISA - Anti-IL-17F antibody (ab46000)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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