Product datasheet

Anti-IL-6 antibody [EPR21710] ab229381

4 References 3 Images

Overview

Product name Anti-IL-6 antibody [EPR21710]
Description Rabbit monoclonal [EPR21710] to IL-6
Host species Rabbit
Tested applications Suitable for: WB, IP
Species reactivity Reacts with: Mouse
Immunogen Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control WB: RAW 264.7 treated with LPS and BFA, whole cell lysate. IP: RAW 264.7 treated with LPS and BFA, whole cell lysate.
General notes This product is a recombinant monoclonal antibody, which offers several advantages including:
- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production
For more information see here.
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

Properties

Form Liquid
Storage buffer pH: 7.2
Preservative: 0.01% Sodium azide
 Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity Protein A purified
Clonality Monoclonal
Clone number EPR21710
Isotype IgG
The Abpromise guarantee

Function
Cytokine with a wide variety of biological functions. It is a potent inducer of the acute phase response. Plays an essential role in the final differentiation of B-cells into Ig-secreting cells Involved in lymphocyte and monocyte differentiation. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation Acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. Also acts as a myokine. It is discharged into the bloodstream after muscle contraction and acts to increase the breakdown of fats and to improve insulin resistance.

Involvement in disease
Genetic variations in IL6 are associated with susceptibility to rheumatoid arthritis systemic juvenile (RASJ) [MIM:604302]. An inflammatory articular disorder with systemic-onset beginning before the age of 16. It represents a subgroup of juvenile arthritis associated with severe extraarticular features and occasionally fatal complications. During active phases of the disorder, patients display a typical daily spiking fever, an evanescent macular rash, lymphadenopathy, hepatosplenomegaly, serositis, myalgia and arthritis.

Note=A IL6 promoter polymorphism is associated with a lifetime risk of development of Kaposi sarcoma in HIV-infected men.

Sequence similarities
Belongs to the IL-6 superfamily.

Post-translational modifications
N- and O-glycosylated.

Cellular localization
Secreted.

Applications

Our Abpromise guarantee covers the use of ab229381 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>Abreviews</th>
<th>Notes</th>
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<td>WB</td>
<td></td>
<td>1/1000. Detects a band of approximately 24 kDa (predicted molecular weight: 24 kDa).</td>
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<tr>
<td>IP</td>
<td></td>
<td>1/30.</td>
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Images
IL6 was immunoprecipitated from 0.35 mg of RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) treated with 100 ng/ml Lipopolysaccharide (LPS) for 6 hours, then added 300 ng/ml BFA the last 3 hours, whole cell lysate with ab229381 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab229381 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/5000 dilution.

**Lane 1:** RAW 264.7 treated with 100 ng/ml Lipopolysaccharide (LPS) for 6 hours, then added 300 ng/ml BFA the last 3 hours, whole cell lysate 10 µg (Input).

**Lane 2:** ab229381 IP in RAW 264.7 treated with 100 ng/ml Lipopolysaccharide (LPS) for 6 hours, then added 300 ng/ml BFA the last 3 hours, whole cell lysate.

**Lane 3:** Rabbit monoclonal IgG (ab172730) instead of ab229381 in RAW 264.7 treated with 100 ng/ml Lipopolysaccharide (LPS) for 6 hours, then added 300 ng/ml BFA the last 3 hours, whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 2 minutes.
**Western blot - Anti-IL-6 antibody [EPR21710] (ab229381)**

**All lanes**: Anti-IL-6 antibody [EPR21710] (ab229381) at 1/1000 dilution

**Lane 1**: Untreated RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus), whole cell lysate

**Lane 2**: RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) treated with 100 ng/ml Lipopolysaccharides (LPS) for 6 hours, then added 300 ng/ml BFA for the last 3 hours, whole cell lysate, whole cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes**: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

**Predicted band size**: 24 kDa

**Observed band size**: 24 kDa

**Exposure time**: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

We detect a non-specific band at approximately 60 KDa.

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**Why choose a recombinant antibody?**

- **Research with confidence**: Consistent and reproducible results
- **Long-term and scalable supply**: Recombinant technology
- **Success from the first experiment**: Confirmed specificity
- **Ethical standards compliant**: Animal-free production

**Anti-IL-6 antibody [EPR21710] (ab229381)**

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