Product datasheet

Anti-IL-6 antibody ab9324

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Overview

Product name  Anti-IL-6 antibody
Description  Mouse monoclonal to IL-6
Host species  Mouse
Tested applications  Suitable for: Sandwich ELISA, WB
Species reactivity  Reacts with: Human
Immunogen  Recombinant full length protein corresponding to Human IL-6 aa 29-212. (Peptide available as ab9627).
Database link: P05231

Positive control  Purchase matching WB positive control: Recombinant Human IL-6 protein

WB: Human spleen and lung tissue lysates, Rat spleen and lung tissue lysates, Recombinant human IL6 protein (ab9627).

General notes  Although some customers have been successful in IHC we no longer batch test in this application.

Properties

Form  Lyophilized: Reconstitute with 500µl of sterile water. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.
Purity  Protein A purified
Clonality  Monoclonal
Isotype  IgG2a

Applications

Our Abpromise guarantee covers the use of ab9324 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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<tr>
<th>Application</th>
<th>Abbreviation</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Sandwich ELISA</td>
<td></td>
<td>Use at an assay dependent concentration. In a sandwich ELISA (assuming 100μl/well), a concentration of 1.0-2.0 μg/ml of this antibody will detect at least 1000pg/ml of Recombinant Human IL-6 when used with ab271236 detection antibody at a concentration of approximately 0.10-0.20 μg/ml.</td>
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<tr>
<td>WB</td>
<td></td>
<td>Use at an assay dependent concentration. To detect human IL-6 by Western blot analysis this antibody can be used at a concentration of 0.50-1.0 μg/mL. When used in conjunction with compatible secondary reagents the detection limit for recombinant human IL-6 is 1.0-2.0 ng/lane, under reducing conditions and non-reducing conditions.</td>
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**Target**

**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.

**Images**
ab9324 detecting IL-6 by sandwich ELISA.

All lanes : Anti-IL-6 antibody (ab9324) at 1/2000 dilution

Lane 1 : Human Spleen
Lane 2 : Human Lung
Lane 3 : Rat Spleen
Lane 4 : Rat Lung

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : 800CW Goat Anti-Mouse IgG at 1/10000 dilution

Performed under reducing conditions.

Observed band size: 17,25 kDa

why is the actual band size different from the predicted?

Additional bands at: 50 kDa (possible multimer)

This antibody was raised against an immunogen that is predicted to recognize the glycosylated form of IL6 as well as the IL6delta4 splice variant. The predicted molecular weights are 25 kDa and 17 kDa respectively. The band observed at 50 kDa may represent multimers of IL6 as reported in the literature.

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