**Product datasheet**

**Recombinant Human IL-6 protein ab101044**

**Description**

- **Product name**: Recombinant Human IL-6 protein
- **Expression system**: Escherichia coli
- **Accession**: P05231
- **Protein length**: Full length protein
- **Animal free**: No
- **Nature**: Recombinant
- **Species**: Human

**Sequence**

```
MKHHHHHHASVPPGEDSDKDAAPHRQPLSSERIDKQIR
YILDGISALRK
ETCNKSNMCESSKEALAENNNLPKMMAKDGCQSGFN
EETCLVKIITGL
LEFEVYLEYLQRFSESSEEQARAVQMSTKVQLQQKAK
NLDAITTPDP
TTNASLLTKLQANQWLQDMTTHILRSFKEFLQQSLRALRQM
```

**Predicted molecular weight**: 22 kDa including tags

**Amino acids**: 30 to 212

**Tags**: His tag N-Terminus

**Specifications**

Our **Abpromise guarantee** covers the use of **ab101044** in the following tested applications.

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

**Applications**

- Western blot
- SDS-PAGE

**Form**: Lyophilized

**Additional notes**: Store lyophilized protein at −20°C. Lyophilized protein remains stable until the expiry date when stored at −20°C.

**Preparation and Storage**
<table>
<thead>
<tr>
<th><strong>Stability and Storage</strong></th>
<th>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. Please see notes section. pH: 7.50 Constituents: 0.24% Tris, 0.3% Sodium chloride</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reconstitution</strong></td>
<td>Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.</td>
</tr>
<tr>
<td><strong>General Info</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Function</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Involvement in disease</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Sequence similarities</strong></td>
<td>Belongs to the IL-6 superfamily.</td>
</tr>
<tr>
<td><strong>Post-translational modifications</strong></td>
<td>N- and O-glycosylated.</td>
</tr>
<tr>
<td><strong>Cellular localization</strong></td>
<td>Secreted.</td>
</tr>
<tr>
<td><strong>Images</strong></td>
<td></td>
</tr>
</tbody>
</table>
14% SDS-PAGE analysis of ab101044
Lane 1: molecular weight markers 14, 21, 31, 45, 66, 97 kDa
Lane 2: ab101044 (reduced and heated, 5μg/lane)
Lane 3: ab101044 (non-reduced and non-heated, 5μg/lane).

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

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- Replacement or refund for products not performing as stated on the datasheet
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- We provide support in Chinese, English, French, German, Japanese and Spanish
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- We investigate all quality concerns to ensure our products perform to the highest standards

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