IL-6 Polyclonal antibody

Catalog Number: 21865-1-AP

Basic Information

Catalog Number: 21865-1-AP
Size: 150µl, Concentration: 500 µg/ml by Nanodrop and 353 µg/ml by Bradford method using BSA as the standard.
Source: Rabbit
Isotype: IgG
Immunogen Catalog Number: AG10565

GenBank Accession Number: BC015511
GeneID (NCBI): 3569
Full Name: interleukin 6 (interferon, beta 2)

Calculated MW: 212 aa, 24 kDa
Observed MW: 20 kDa

Purification Method: Antigen affinity purification
Recommended Dilutions:
WB: 1:500-1:2000
IHC: 1:50-1:500

Applications

Tested Applications: IHC, WB, ELISA
Cited Applications: ELISA, IF, IHC
Species Specificity: human
Cited Species: canine, goat, human

Positive Controls:
WB: LPS and Protein transport inhibitor treated HUVEC cells,
IHC: human tonsillitis tissue, human spleen tissue, human hepatocirrhosis tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0. (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Interleukin-6 (IL-6) is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. IL-6 protein is secreted by a variety of cell types including T cells and macrophages as phosphorylated and variably glycosylated molecule. IL-6 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. IL-6 is also considered a myokine, a cytokine produced from muscle, and is elevated in response to muscle contraction. IL-6 has been shown to interact with interleukin-6 receptor and glycoprotein 130. Additionally, IL-6 is involved in hematopoiesis, bone metabolism, and cancer progression, and has been defined an essential role in directing transition from innate to acquired immunity.

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
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<tbody>
<tr>
<td>Yanliang Wu</td>
<td>34601083</td>
<td>J Ethnopharmacol</td>
<td>WB</td>
</tr>
<tr>
<td>Qian Chen</td>
<td>32997272</td>
<td>J Nat Med</td>
<td>WB</td>
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<tr>
<td>Donghui Yang</td>
<td>32996162</td>
<td>J Cell Physiol</td>
<td>WB</td>
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Storage

Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) toll free in USA, or 1(312) 455-8498 (outside USA)
E: proteintechn@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Untreated HUVEC cells, HUVEC cells (treated with 0.5 µg/ml LPS for 24 hours, then add 300 ng/ml protein transport inhibitor last 20 hours) were subjected to SDS PAGE followed by western blot with 21865-1-AP (IL-6 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 21865-1-AP (IL-6 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).