Product Details

Description: RABBIT ANTI HUMAN INTERLEUKIN-6

Specificity: IL-6

Format: Purified

Product Type: Polyclonal Antibody

Isotype: Polyclonal IgG

Quantity: 0.1 mg

Applications

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<tr>
<td>ELISA</td>
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<td>0.25 - 0.5ug/ml</td>
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<tr>
<td>Immunoprecipitation</td>
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<td>0.5ug/ml</td>
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<tr>
<td>Western Blotting</td>
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<tr>
<td>Immunofluorescence</td>
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<tr>
<td>Functional Assays (2)</td>
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<td>0.20 - 0.40ug/ml</td>
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</table>

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires heat-mediated antigen retrieval prior to staining paraffin-embedded sections. Citrate buffer, pH6.0, is recommended for this purpose.

(2) To yield one-half maximal inhibition [ND50] of the biological activity of Human IL-6 (1.0 ng/ml).

Target Species

Human

Product Form

Purified IgG - lyophilised

Reconstitution

Reconstitute with 0.1ml distilled water

Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.

N.B. For functional studies do not add sodium azide

Antiserum Preparation

Antisera to human IL-6 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution

Phosphate buffered saline
**Preservative Stabilisers**
None present

**Carrier Free**
Yes

**Approx. Protein Concentrations**
IgG concentration 1.0 mg/ml after reconstitution

**Immunogen**
Recombinant human IL-6 (PHP045)

**External Database Links**

- UniProt: [P05231](UniProt)
- Related reagents
- Entrez Gene: [3569](Entrez Gene) IL6
- Related reagents

**Synonyms**
IFNB2

**RRID**
AB_617521

**Specificity**
Rabbit anti Human Interleukin-6 antibody is specific for human IL-6 (Interleukin-6), a 184 amino acid multifunctional pro-inflammatory cytokine, secreted by activated T cells, macrophages, endothelial cells, fibroblasts and osteoblasts.

The diverse biological properties of IL-6 include the principle inducer of the acute phase response in the liver, stimulation of B cell differentiation and subsequent immunoglobulin production, promotion of hybridoma growth, regulation of bone metabolism and stimulation of energy mobilization in muscle and fatty tissue. IL-6 signals through a membrane bound receptor complex consisting of the ligand-binding IL-6Rα chain (CD126) and the signal-transducing component gp130 (CD130), but can also stimulate cells expressing gp130 through a soluble IL-6R.

Rabbit anti Human Interleukin-6 antibody has been shown to inhibit the biological activity of Human IL-6.

**ELISA**
Purified rabbit anti human IL-6 may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA with biotinylated rabbit anti human IL-6 (AHP1040B) as the detection reagent and recombinant human IL-6 (PHP045) as the standard.

**Western Blotting**
Rabbit anti human IL-6 may used under either reducing or non-reducing conditions with recombinant human IL-6 (PHP045) as the positive control.

**Further Reading**

**Storage**
Prior to reconstitution store at -20°C.
After reconstitution store at -20°C.

This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee 6 months from date of despatch


Regulatory For research purposes only

Related Products

**Recommended Secondary Antibodies**

- Sheep Anti Rabbit IgG (STAR34...) **FITC**
- Goat Anti Rabbit IgG (H/L) (STAR124...) **HRP**
- Goat Anti Rabbit IgG (Fc) (STAR121...) **Biotin, FITC, HRP**
- Sheep Anti Rabbit IgG (STAR35...) **RPE**
- Sheep Anti Rabbit IgG (STAR36...) **DyLight®488, DyLight®680, DyLight®800**

**Recommended Positive Controls**

- RECOMBINANT HUMAN INTERLEUKIN-6 (PHP045)
- RECOMBINANT HUMAN INTERLEUKIN-6 (PHP045A)

**Recommended Useful Reagents**

- RABBIT ANTI HUMAN INTERLEUKIN-6 Biotin (AHP1040B)
- ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)
- ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025C)
- TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)