

## Datasheet: AHP1040

<b>Description:</b>	RABBIT ANTI HUMAN INTERLEUKIN-6
<b>Specificity:</b>	IL-6
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			0.25 - 0.5ug/ml
ELISA	▪			0.5ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml
Immunofluorescence	▪			
Functional Assays (2)	▪			0.20 - 0.40ug/ml

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).**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - lyophilised
<b>Reconstitution</b>	<p>Reconstitute with 0.1ml distilled water</p> <p>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.</p> <p>N.B. For functional studies do not add sodium azide</p>
<b>Antiserum Preparation</b>	Antisera to human IL-6 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml after reconstitution
<b>Immunogen</b>	<a href="#">Recombinant human IL-6</a> (PHP045)
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P05231</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3569</a> IL6   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	IFNB2
<b>Specificity</b>	<p><b>Rabbit anti Human Interleukin-6 antibody</b> 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.</p> <p>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 mobilisation in muscle and fatty tissue. IL-6 signals through a membrane bound receptor complex consisting of the ligand-binding IL-6R<math>\alpha</math> chain (CD126) and the signal-transducing component gp130 (CD130), but can also stimulate cells expressing gp130 through a soluble IL-6R.</p> <p><b>Rabbit anti Human Interleukin-6 antibody</b> has been shown to inhibit the biological activity of Human IL-6.</p>
<b>ELISA</b>	Purified rabbit anti human IL-6 may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA with <a href="#">biotinylated rabbit anti human IL-6</a> (AHP1040B) as the detection reagent and <a href="#">recombinant human IL-6</a> (PHP045) as the standard.
<b>Western Blotting</b>	Rabbit anti human IL-6 may used under either reducing or non-reducing conditions with <a href="#">recombinant human IL-6</a> (PHP045) as the positive control
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. Yasukawa, K. <i>et al.</i> (1987) Structure and expression of human B cell stimulatory factor-2 (BSF-2/IL-6) gene. <a href="#">EMBO J. 6 (10): 2939-45.</a></li> <li>2. Peters, M. <i>et al.</i> (1998) Interleukin-6 and soluble interleukin-6 receptor: direct stimulation of gp130 and hematopoiesis. <a href="#">Blood. 92 (10): 3495-504.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at +4°C.  After reconstitution store at -20°C.</p> <p>Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Shelf Life</b>	12 months from date of reconstitution.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10162 available at: 10162: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf</a>

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[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 \(STAR209P\)](#)

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