

## 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 - lyophilized
<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>

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

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

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**Buffer Solution** Phosphate buffered saline

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**Preservative Stabilisers** None present

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**Carrier Free** Yes

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

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**Immunogen** [Recombinant human IL-6](#) (PHP045)

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**External Database Links**

**UniProt:**

[P05231](#)

[Related reagents](#)

**Entrez Gene:**

[3569](#)

IL6

[Related reagents](#)

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**Synonyms** IFNB2

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**RRID** AB\_617521

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**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-6R $\alpha$  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.

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**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.

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**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

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**Further Reading**

1. Yasukawa, K. *et al.* (1987) Structure and expression of human B cell stimulatory factor-2 (BSF-2/IL-6) gene. [EMBO J. 6 \(10\): 2939-45.](#)
2. Peters, M. *et al.* (1998) Interleukin-6 and soluble interleukin-6 receptor: direct stimulation of gp130 and hematopoiesis. [Blood. 92 \(10\): 3495-504.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10294 available at: <https://www.bio-rad-antibodies.com/SDS/AHP1040>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

### Recommended Positive Controls

[RECOMBINANT HUMAN INTERLEUKIN-6 \(PHP045\)](#)

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)  
[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M402163:220718'

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