

Datasheet: AHP1040

BATCH NUMBER 155894

Description:	RABBIT ANTI HUMAN INTERLEUKIN-6
Specificity:	IL-6
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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).

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](#)

[Related reagents](#)

Entrez Gene:

[3569](#)

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-6R α 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

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.](#)

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

Health And Safety Information Material Safety Datasheet documentation #10162 available at: <https://www.bio-rad-antibodies.com/SDS/AHP1040>
10162

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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