



# Anti-IL6 polyclonal antibody [Biotin] (CPBT-65406RH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

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 mobilisation 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. ELISA This biotinylated rabbit anti human IL-6 may be used in a direct ELISA or as the detection reagent in a sandwich ELISA. Western Blotting Rabbit anti human IL-6 may used under either reducing or non-reducing conditions.

<b>Specificity</b>	IL6
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Biotin
<b>Applications</b>	ELISA; WB
<b>Format</b>	Purified IgG conjugated to Biotin - lyophilised
<b>Size</b>	50 $\mu$ g
<b>Preservative</b>	None

**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.

## GENE INFORMATION

Gene Name	<a href="#">IL6 interleukin 6 [ Homo sapiens (human) ]</a>
Official Symbol	IL6
Synonyms	IL6; interleukin 6; HGF; HSF; BSF2; IL-6; IFNB2; interleukin-6; CDF; BSF-2; IFN-beta-2; interferon beta-2; interleukin BSF-2; interferon, beta 2; hybridoma growth factor; CTL differentiation factor; B-cell stimulatory factor 2; B-cell differentiation fact
Entrez Gene ID	<a href="#">3569</a>
Protein Refseq	<a href="#">NP_000591</a>
UniProt ID	P05231
Chromosome Location	7p21
Pathway	ARMS-mediated activation; ATF-2 transcription factor network; Activated TLR4 signalling; Adipogenesis; African trypanosomiasis; Amoebiasis; Axon guidance; Cellular Senescence;
Function	cytokine activity; growth factor activity; interleukin-6 receptor binding; contributes_to interleukin-6 receptor binding; protein binding;