

## Product datasheet for PP036P2

### IL6 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FN, WB
Recommended Dilution:	<b>Neutralization:</b> To yield one-half maximal inhibition [ND50] of the biological activity of Rat IL-6 (0.5 ng/ml), a concentration of 1.0-1.5 µg/ml of this antibody is required. <b>Indirect ELISA:</b> To detect Rat IL-6 by indirect ELISA (using 100 µl/well antibody solution) a concentration of 0.5-2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of at least 0.2-0.4 ng/well of recombinant Rat IL-6. <b>Sandwich ELISA:</b> To detect Rat IL-6 by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5-2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with a biotinylated Anti-Rat IL-6 (Cat.-No PP036B1 or PP036B1) as a detection antibody, allows the detection of at least 0.2-0.4 ng/well of recombinant Rat IL-6. <b>Western Blot:</b> To detect Rat IL-6 by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Rat IL-6 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure (>98%) E.coli derived recombinant Rat IL-6 (Cat.-No PA040)
Specificity:	The antibody recognizes Rat IL-6. Other species not tested.
Formulation:	PBS, pH 7.2 State: Aff - Purified State: Lyophilized (sterile filtered) Ig fraction.
Reconstitution Method:	Centrifuge vial prior to opening. Restore in sterile water to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity chromatography employing immobilized Rat IL-6 matrix
Conjugation:	Unconjugated



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<b>Storage:</b>	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	interleukin 6
<b>Database Link:</b>	<a href="#">Entrez Gene 24498 Rat P20607</a>
<b>Background:</b>	Interleukin 6 (IL6) is a multifunctional 24 kD protein originally discovered in the medium of RNA stimulated fibroblastoid cells. It is upregulated by IL1, TNF, PDGF, IFN beta, TNF alpha, NGF, IL17 and downregulated by glucocorticoids IL4, TGF beta. IL6 appears to be directly involved in the responses that occur after infection and cellular injury, and it may prove to be as important as IL1 and TNF alpha in regulating the acute phase response. IL6 has also been implicated in regulating adipose mass. IL6 is reported to be produced by fibroblasts, activated T cells, activated monocytes or macrophages and endothelial cells. It acts upon a variety of cells including fibroblasts, myeloid progenitor cells, T cells, B cells and hepatocytes. In addition, IL6 appears to interact with IL2 in the proliferation of T lymphocytes. IL6 potentiates the proliferative effect of IL3 on multipotential hematopoietic progenitors.
<b>Synonyms:</b>	IL-6, Interferon beta-2, IFNB2, B-cell stimulatory factor 2, BSF-2, CDF