



Anti-Human IL-6

20150223ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	102-P153G
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of goats pre-immunized with highly pure (>98%) recombinant hIL-6. Anti-Human IL-6 specific antibody was purified by affinity chromatography employing immobilized hIL-6 matrix.

Target Background

Synonyms (Target):	IL6; HGF; HSF; BSF2; IL-6; IFNB2
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IL-6 is a pleiotropic cytokine that plays an important role in host defense by regulating immune and inflammatory responses. Produced by T cells, monocytes, fibroblasts, endothelial cells and keratinocytes, IL-6 has diverse biological functions. It stimulates B-cell differentiation and antibody production, synergizes with IL-3 in megakaryocyte development and platelet production, induces expression of hepatic acute-phase proteins, and regulates bone metabolism. IL-6 signals through the IL-6 receptor system that consists of two chains, IL-6R α and gp130. Murine IL-6 is inactive on human cells, while both human and murine are equally active on murine cells. Recombinant human IL-6 is a 20.9 kDa protein containing 184 amino acid residues.

Database References Target

Protein RefSeq:	NP_000579
Uniprot ID:	P05231
mRNA RefSeq:	NM_000600

Product Specifications

Species reactivity	Human
Clone/Ab feature	Goat IgG
Cross reactivity	Human
Host	Goat
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	recombinant Human IL-6
Formulation	lyophilized from PBS
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: The lyophilized antibody is stable for at least 2 years from date of receipt at -20 °C. The reconstituted antibody is stable for at least two weeks at 2-8 °C. Frozen aliquots are stable for at least 6 months when stored at -20 °C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Neutralization: To yield one-half maximal inhibition [ND₅₀] of the biological activity of hIL-6 (5 ng/ml), a concentration of 0.05 - 0.08 µg/ml of this antibody is required.

Immunohistochemistry: This antibody stained formalin-fixed, paraffin-embedded sections of human cervical squamous cell carcinoma. The recommended concentrations are 0.25 µg/ml with an overnight incubation at 4°C. An HRP-labeled polymer detection system was used with a DAB chromogen. The recommended antigen retrieval is heat induced antigen retrieval with a pH 6.0 Sodium Citrate buffer. Optimal concentrations and conditions may vary.

Western Blot: To detect human 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 human IL-6 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

ELISA: Sandwich: To detect human 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 compatible secondary reagents, allows the detection of at least 0.2 - 0.4 ng/well of recombinant human IL-6.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!