



# Anti-Human IL-2

20200818BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>102-P32</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant human IL 2 (human Interleukin-2). Anti-human IL 2 specific antibody was purified by affinity chromatography employing immobilized human IL 2 matrix.

## Target Background

<b>Synonyms (Target):</b>	IL2; IL-2; TCGF; lymphokine
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Interleukin 2 (IL-2) was initially identified as a T cell growth factor that is produced by T cells following activation by mitogens or antigens. Since then, it has also been shown to stimulate the growth and differentiation of B cells, natural killer (NK) cells, lymphocyte activated killer (LAK) cells, monocytes/macrophages and oligodendrocytes. At the amino acid sequence level, there is approximately 60% - 90% similarity between species. Mature human IL-2 shows 65%, 67%, 72%, 78%, and 64% aa identity to mouse, rat, pig, cat, and cow IL-2, respectively.

### Database References Target

<b>Protein RefSeq:</b>	NP_000577
<b>Uniprot ID:</b>	P60568
<b>mRNA RefSeq:</b>	NM_000586

## Product Specifications

<b>Species reactivity</b>	Human
<b>Clone/Ab feature</b>	Rabbit IgG
<b>Cross reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	recombinant human IL-2
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Centrifuge the vial prior for opening. Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized antibody is stable for 1 month at room temperature and for 5 years from date of receipt at -20 to -70°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

**Immunohistochemistry:** This antibody stained formalin-fixed, paraffin-embedded sections of human breast invasive ductal carcinoma. The recommended concentration is 0.125 µg-0.250 µg/ml with an overnight incubation at 4°C. An HRP-labeled polymer detection system was used with a DAB chromogen. Heat induced antigen retrieval with a pH 6.0 sodium citrate buffer is recommended. Optimal concentrations and condition may vary.

**Neutralization:** To yield one-half maximal inhibition [**ND**<sub>50</sub>] of the biological activity of human IL-2 (0.8 ng/ml), a concentration of 0.26-0.40 µg/ml of this antibody is required.

**Sandwich ELISA:** To detect human IL-2 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 0.2 - 0.4 ng/well of recombinant human IL-2.

**Western Blot:** To detect human IL-2 by WB this antibody can be used at a concentration of 0.1-0.2 µg/ml. When used in conjunction with a compatible secondary reagents the detection limit for rh IL-2 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

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