

**Product No. I-8398****Lot 046H6697****Anti-Mouse Interleukin-2 (IL-2)**

Developed in Goat

IgG Fraction of Antiserum

Anti-Mouse Interleukin-2 (IL-2) was developed in goat using recombinant, mouse interleukin-2 (IL-2), expressed in *E. coli*, as the immunogen. The antibody is purified by Protein G affinity chromatography. Goat Anti-Mouse IL-2 is provided lyophilized from phosphate buffered saline, (PBS) pH 7.4, to which no preservatives have been added.

**Description**

Interleukin-2 is a T cell-derived cytokine also called T cell growth factor (TCGF). It stimulates the growth and differentiation of T cells, B cells, NK cells, LAK cells, monocytes, macrophages and oligodendrocytes.<sup>1-3</sup> There is 60% homology between human and mouse IL-2. Mouse IL-2 is not active on human cells. Anti-Mouse IL-2 neutralizes the bioactivity of recombinant, mouse IL-2. It does not neutralize recombinant, human IL-2. In indirect ELISA and indirect immunoblotting, this antibody shows 5-10% cross-reactivity with recombinant, human IL-2.

**Performance**

Anti-Mouse IL-2 is tested for its ability to neutralize the biological activity of recombinant, mouse IL-2 on CTLL-2 cells. The ND<sub>50</sub> of the antibody is defined as the concentration of antibody resulting in a one-half maximal inhibition of bioactivity of recombinant, mouse IL-2, when IL-2 is present at a concentration just high enough to elicit a maximum response.

**Product Information**

Mass/vial: 1 mg  
Immunogen: Recombinant, mouse IL-2  
Host animal: Goat

Formulation: Lyophilized from PBS without additives.

Endotoxin: < 10 ng/mg by LAL method

Bioactivity: ND<sub>50</sub> = 3.5 µg/ml

Indirect ELISA: 1 µg/ml antibody detects 0.6 ng/well of recombinant, mouse IL-2.

Indirect

Immunoblotting: 2 µg/ml antibody detects 5 ng/lane of recombinant, mouse IL-2 under reducing and non-reducing conditions.

Sterility: 0.2 µm-filtered, aseptic fill

**Reconstitution and Use**

To one vial of lyophilized powder, add 1 ml of 0.2 µm-filtered PBS to produce a 1 mg/ml stock solution of Anti-Mouse IL-2. If aseptic technique is used, no further filtration should be needed for use in cell culture environments.

**Storage**

Prior to reconstitution, store at -20°C. Reconstituted product may be stored 2-8°C for a maximum of one month. For prolonged storage, freeze in working aliquots at -20°C. Avoid repeated freezing and thawing.

**References**

1. Smith, K., Ann. Rev. Immunol., **2**, 319 (1984).
2. Smith, K., Science, **240**, 1169 (1988).
3. Kuziel, W., et al., The Cytokine Handbook, Thomson, A. (ed.), Academic Press, London, 83 (1991).