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Product Information

Anti-Interleukin-2
produced in goat, IgG fraction of antiserum

Catalog Number **I8273**

Synonym**:** Anti-IL-2

Product Description

Anti-Interleukin-2 was produced in goat using as immunogen recombinant human Interleukin-2 (IL-2), expressed in *E. coli.* It is purified by Protein G affinity chromatography.

Interleukin-2 is a T cell-derived cytokine also known as T cell growth factor (TCGF). It stimulates the growth and differentiation of T cells, B cells, NK cells, LAK cells, monocytes, macrophages, and oligodendrocytes.[1-3] There is 60% homology between human and mouse IL-2. Anti-Interleukin-2 neutralizes the bioactivity of recombinant and natural human IL-2. It also neutralizes recombinant, mouse IL-2, but requires 30-50 times the antibody concentration required to neutralize human IL-2. The product shows no cross-reactivity with other cytokines when tested using indirect ELISA.

Reagents

Lyophilized from 0.2 μm-filtered solution in phosphate buffered saline containing carbohydrates.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

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

Product Profile

Anti-Interleukin-2 is tested for its ability to neutralize the biological activity of recombinant, human IL-2 on CTLL-2 cells.

The ND_{50} of the antibody is defined as the concentration of antibody resulting in a one-half maximal inhibition of bioactivity of recombinant, human IL-2, when IL-2 is present at a concentration just high enough to elicit a maximum response.

Immunoblotting: a working concentration of 1 μg/mL antibody is recommended.

Note: In order to obtain best results in different techniques and preparations, it is recommended to determine optimal working dilutions by titration test.

Endotoxin level is <0.10 EU/μg antibody as determined by the LAL (Limulus amebocyte lysate) method.

References

1. Smith, K. A. , *Annu. Rev. Immunol*., **2**, 319 (1984).
2. Smith, K. A., Science, **240**, 1169-1176 (1988).
3. Gaggen, S. L., *et al.*, *The Cytokine Handbook*, Thomson. A. W.,ed.) pp 73-103 (Academic Press, San Diego, CA, 1998).

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