

## Product Information

### Monoclonal Anti-Interleukin-2, clone 5355

produced in mouse, purified immunoglobulin

Catalog Number **I6909**

#### Product Description

Monoclonal Anti-Interleukin-2 (IL-2; mouse IgG2A isotype) is purified from a hybridoma produced by the fusion of mouse myeloma cells and B cells from a mouse immunized with recombinant human Interleukin-2 (GenelD 3558) expressed and purified from *Escherichia coli*. The antibody is purified by Protein G affinity chromatography.

Monoclonal Anti-Interleukin-2 recognizes human Interleukin-2. Applications include immunohistochemistry and ELISA.

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> It functions through the heterotrimeric IL2 receptor comprising  $\alpha$ ,  $\beta$ , and  $\gamma$  chains. There is 60% homology between human and mouse IL-2.

#### Reagent

Lyophilized from 0.2  $\mu$ m-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.

#### Preparation Instructions

To one vial of lyophilized powder, add 1 mL of 0.2  $\mu$ m filtered PBS to produce a 0.5 mg/mL stock solution. If aseptic technique is used, no further filtration should be necessary for use in cell culture environments.

#### Storage/Stability

Prior to reconstitution, store at  $-20^{\circ}\text{C}$ . Reconstituted product may be stored at  $2-8^{\circ}\text{C}$  for up to one month. For extended storage, freeze in working aliquots at  $-20^{\circ}\text{C}$ . Repeated freezing and thawing, or storage in frost-free freezers, is not recommended.

#### Product Profile

**Immunohistochemistry:** a working concentration of 8-25  $\mu\text{g/mL}$  is recommended to detect rhIL-2 in activated human peripheral blood mononuclear cells (PBMCs) stimulated with PMA and ionomycin.

**Capture ELISA:** this antibody can be used as a capture antibody in a human Interleukin-2 ELISA in combination with biotinylated human Interleukin-2 detection antibody and recombinant human Interleukin-2 as the standard. The suggested coating concentration range is 2-8  $\mu\text{g/mL}$ . The recommended concentration range of the detection antibody is 0.1-0.4  $\mu\text{g/mL}$ .

**Note:** In order to obtain the best results using various techniques and preparations, it is recommended to determine the optimal working dilutions by titration.

#### 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).
4. Gearing, A.J.H., and Bird, C.B., *Lymphokines and Interferons, a practical approach*, IRL Press, M.J. Clemens, A.G. Morris, and A.J.H. Gearing, eds. p. 296, (1987).

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