

## Product Information

### Monoclonal Anti-Leukemia Inhibitory Factor

#### Clone 139124

produced in rat, purified immunoglobulin

Catalog Number **L0544**

#### Product Description

Anti-Leukemia Inhibitory Factor (rmLIF) is developed from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a rat immunized with purified, *E. coli*-derived, recombinant mouse leukemia inhibitory factor (GeneID 16878). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

Anti-Leukemia Inhibitory Factor recognizes mouse Leukemia inhibitory factor. This product has been tested for use in immunoblotting. In this format, no cross-reactivity was observed with rmlL-6, rmlL-11, rhLIF, rmCT-1, rhCLC or rrCNTF.

Leukemia inhibitory factor is a multifunctional glycoprotein that induces macrophage differentiation and suppresses the proliferation of the murine M1 myeloid cell line.<sup>1</sup>

#### Reagent

Supplied lyophilized from a 0.2 µm filtered solution of phosphate buffered saline with 5% trehalose.

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material 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 µm filtered PBS to produce a 0.5 mg/mL stock solution. If aseptic technique is used, no further filtration should be needed for use in cell culture environments.

#### Storage/Stability

Prior to reconstitution, store at -20 °C. The reconstituted product may be stored at 2-8 °C for up to one month. For extended storage, freeze in working aliquots at -20 °C. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended.

#### Product Profile

Immunoblotting: a working concentration of 1-2 µg/mL is recommended. The detection limit for recombinant mouse LIF is ~5 ng/lane under non-reducing and reducing conditions.

**Note:** In order to obtain the best results using various techniques and preparations, we recommend determining the optimal working dilutions by titration.

Endotoxin: < 0.1 EU/µg antibody as determined by the LAL method.

#### References

1. Gearing, D., et al., *EMBO J.*, **6**, 3995 (1987).
2. Moreau, F.J., et al., *Nature*, **336**, 690 (1988).

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