



**Mouse Anti-Human LIF Monoclonal Antibody Datasheet**

**Product Name:** mAb anti-human LIF

**Clone No.:** 3F4

**Catalogue No.:** MO-C40096B

**Quantity:**

**Description:** Mouse monoclonal antibody to human Leukemia inhibitory factor (LIF).

**Purification:** Protein G affinity purified

**Product Type:** Primary antibody

**Target Protein:** LIF

**Immunogen:** Recombinant LIF

**Fusion Myeloma:** Sp2/0-Ag14

**Specificity:** This antibody is reactive to recombinant human LIF protein.

**Species Reactivity:** Human, others not tested

**Host / Isotype:** Mouse, IgG2b Kappa

**Formulation:** Lyophilized from a solution in 0.01M PBS, pH 7.0

**Reconstitution:** Double distilled water is recommended to adjust the final concentration to 1mg/mL.

**Storage:** Store at -20°C

**Research Area:** Cytokine and oncology

**Background:** LIF is a cytokine with important functions in diversified biological processes including cell differentiation, inflammatory response, neuronal development and cancer progression. LIF can induce the terminal differentiation of leukemia cells, thus it

inhibits the further progression of leukemia. However, it has opposite effects on many other cancers, such as breast cancer and bladder cancer etc. Several recent studies have shown that LIF might play a significant role in pancreatic ductal adenocarcinoma (PDAC) tumorigenesis development. Treatment of pancreatic cancer by blocking LIF is currently under investigation. Research also demonstrated that elevated LIF level in pancreatic tissue and circulation was correlated with the cancer progression, indicating that LIF might be useful as a biomarker.

**Applications:** **Western blot:** This antibody detected recombinant LIF protein on Western Blot.



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2355 Derry Road East, Unit 23, Mississauga, ON, Canada L5S 1V6 • Tel: (905) 677-9221 • Fax: (905) 677-0023

The antibody can detect less than  
10ng/well of recombinant LIF on the  
blot.

**EIA:** This antibody is reactive to  
recombinant human LIF in indirect ELISA.

### **References:**

Xuetian Yue et al., The regulation of  
leukemia inhibitory factor. *Cancer Cell  
Microenvironment* 2015; 2(3): e877.

Yu Shi et al., Targeting LIF-mediated  
paracrine interaction for pancreatic  
cancer therapy and monitoring. *Nature*  
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Christian Bressy et al., LIF drives neural  
remodeling in pancreatic cancer and  
offers a New Candidate Biomarker 2018  
15:78(4):909-921

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