

**LIF Antibody**  
Catalog # ASC11302**Specification**

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**LIF Antibody - Product Information**

Application	WB, IF
Primary Accession	<a href="#">P15018</a>
Other Accession	<a href="#">NP_002300</a> , <a href="#">4504991</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 22 kDa

Application Notes	<b>Observed: 25 kDa KDa</b> LIF antibody can be used for detection of LIF by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunofluorescence starting at 20 µg/mL.
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**LIF Antibody - Additional Information**

Gene ID **3976**

**Target/Specificity**

LIF; At least two isoforms of LIF are known to exist.

**Reconstitution & Storage**

LIF antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

LIF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**LIF Antibody - Protein Information**

Name LIF

Synonyms HILDA

**Function**

LIF has the capacity to induce terminal differentiation in leukemic cells. Its activities include the induction of hematopoietic differentiation in normal and myeloid leukemia cells, the induction of neuronal cell differentiation, and the stimulation of acute-phase protein synthesis in hepatocytes.

**Cellular Location**

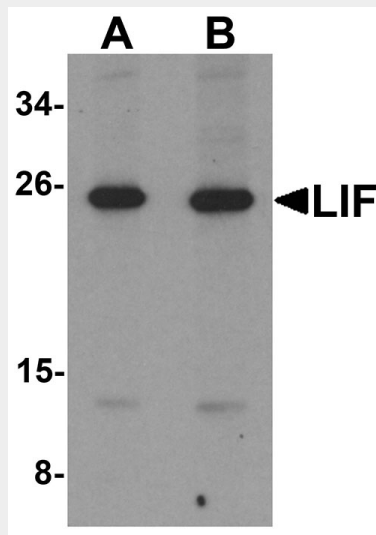
Secreted.

## LIF Antibody - Protocols

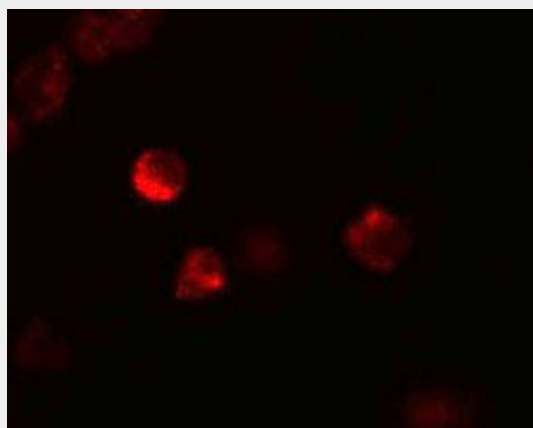
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## LIF Antibody - Images



Western blot analysis of LIF in 3T3 cell lysate with LIF antibody at (A) 1 and (B) 2 µg/mL.



Immunofluorescence of LIF in 3T3 cells with LIF antibody at 20 µg/mL.

## LIF Antibody - Background

**LIF Antibody:** LIF is a pleiotropic cytokine with roles in several different systems. It is involved in the induction of hematopoietic differentiation in normal and myeloid leukemia cells, induction of neuronal cell differentiation, regulator of mesenchymal to epithelial conversion during kidney

development, and may also have a role in immune tolerance at the maternal-fetal interface. LIF was initially recognized by its ability to induce terminal differentiation of myeloid leukemic cells. It is a member of the IL-6 cytokine superfamily and can be highly glycosylated. LIF signaling is transduced through the LIF-R/gp130 receptor complex, leading to the phosphorylation and activation of the JAK/STAT pathway. Recent evidence shows that LIF inhibits cardiomyogenesis in embryonic stem cells via STAT3 activation.

#### **LIF Antibody - References**

Trouillas M, Saucourt C, Guillotin B, et al. The LIF cytokine: towards adulthood. *Eur. Cytokine Netw.* 2009; 20:51-62.

Hilton DJ, Nicola NA and Metcalf D. Purification of a murine leukemia inhibitory factor from Krebs ascites cells. *Anal. Biochem.* 1988; 173:359-67.

Schemlzer CH, Burton LE and Tamony CM. Purification and partial characterization of recombinant human differentiation-stimulating factor. *Protein Expr. Purif.* 1990; 1:54-62