

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                     |
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| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                               |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human LIF in direct ELISAs.                                                 |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Goat IgG                                                                 |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                           |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human LIF<br>Ser23-Phe202<br>Accession # P15018 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                        |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                     |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Neutralization</b>       | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

LIF (Leukemia inhibitory factor; also Differentiation-stimulating factor) is a 22 kDa (predicted) glycoprotein, member of the leukemia inhibitory factor/interleukin-6 (LIF/IL-6) family of cytokines. Natural LIF is heavily glycosylated, showing an apparent molecular weight of 32 kDa to 62 kDa, it is produced by a variety of cells including T cells, monocytes, fibroblasts, osteoblasts and mast cells. LIF induces hematopoietic differentiation in normal and myeloid leukemia cells, neuronal cell differentiation and stimulation of acute-phase protein synthesis in hepatocytes. Human LIF acts through a receptor comprising a 190 kDa LIF-binding  $\alpha$ -chain and a 130 kDa signal-transducing  $\beta$ -chain (gp130), which is shared with the other members of the IL-6 family. Human and mouse LIF exhibit 78% aa sequence identity.

#### PRODUCT SPECIFIC NOTICES

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