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# Datasheet for ABIN2665228

# anti-LIF antibody

**Images** 



#### Overview

Quantity:	100 μg
Target:	LIF
Reactivity:	Human, Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This LIF antibody is un-conjugated
Application:	Flow Cytometry (FACS)

#### **Product Details**

Clone:	M1506B09
Isotype:	lgG2a
Purification:	The antibody was purified by affinity chromatography.

## **Target Details**

Target:	LIF
Alternative Name:	LIF (LIF Products)
Background:	Leukemia inhibitory factor (LIF) is a pleiotropic cytokine that belongs to the IL-6 receptor family.
	It binds to a heterodimeric membrane receptor made up of a LIF-specific subunit, gp190, and
	the subunit gp130. The LIF complex receptor signals though STAT3 and JAK kinases. LIF
	expression has been observed in various tissues including the thymus, lung, and neuronal
	tissue. LIF displays diverse biological effects, but is best known for its ability to inhibit the

#### **Target Details**

differentiation of embryonic stem cells in mice and contributes to stem cell self-renewal. It is involved in the induction of hematopoietic differentiation in normal and myeloid leukemia cells, as well as the induction of neuronal cell differentiation. It also regulates mesenchymal to epithelial conversion during kidney development, and also may have a role in immune tolerance at the maternal-fetal interface. LIF can be upregulated by pro-inflammatory cytokines such as TNF- $\alpha$  and IL-17. Elevated levels of LIF have been found in cases of rheumatoid arthritis, neural injury, systemic inflammation, and tuberculosis.

Pathways:

Storage:

JAK-STAT Signaling, Positive Regulation of Peptide Hormone Secretion, Negative Regulation of Hormone Secretion, Stem Cell Maintenance, Growth Factor Binding

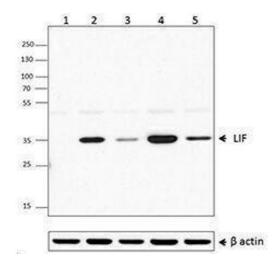
## **Application Details**

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Concentration:	0.5 mg/mL
Buffer:	Phosphate-buffered solution, pH 7.2, containing 0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Storage Comment: The antibody solution should be stored undiluted between 2°C and 8°C.

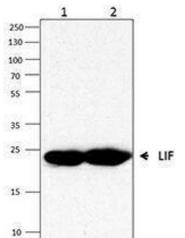
4°C

should be handled by trained staff only.



# Flow Cytometry

Image 1.



#### **Western Blotting**

Image 2.