

# Mouse Leukemia inhibitory factor receptor (LIFR) ELISA Kit



Catalog No: #EK10083

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)

Package Size: #EK10083-1 48T #EK10083-2 96T

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## Description

Product Name	Mouse Leukemia inhibitory factor receptor (LIFR) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	CD118; FLJ98106; FLJ99923; LIF-R; SJS2; STWS; SWS; CD118 antigen leukemia inhibitory factor receptor
Accession No.	P42703
Uniprot	P42703
GeneID	16880;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:6.25 pg/mL - 400 pg/mL

Sensitivity:3.12 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 &amp;mu;L

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

Detection Method:Sandwich

Test principle:This assay employs a two-site sandwich ELISA to quantitate LIFR in samples. An antibody specific for LIFR has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLIFR present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LIFR is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LIFR bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:LIFR also known as CD118 (Cluster of Differentiation 118), is a subunit of a receptor for leukemia inhibitory factor. The leukemia inhibitory factor is a polyfunctional cytokine that affects the differentiation, survival, and proliferation of a wide variety of cells in the adult and the embryo. LIF action appears to be mediated through a high-affinity receptor complex composed of a low-affinity LIF binding chain (LIF receptor) and a high-affinity converter subunit, gp130. Both LIFR and gp130 are members of a family of cytokine receptors that includes components of the receptors for the majority of hematopoietic cytokines and for cytokines that affect other systems, including the ciliary neurotrophic factor, growth hormone and prolactin.

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Note: This product is for in vitro research use only