

Anti-GIF Antibody [Clone 50-1]

Catalog Number LDG0044YA

Package 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



Overview

Description

Metallothioneins (MTs) is a group of low-molecular-weight, cysteine-rich, non-enzymatic proteins, is involved in storage, transportation and binding of metals, and plays a critical role in the protection against metal toxicity and oxidative stress. Metallothionein-3 (MT-3) also known as Growth Inhibitory Factor, (GIF), a member of the MTs family, is mainly expressed in the central nervous system, can protect neuronal cells from oxidative stress via its anti-oxidant properties. MT-3 is abnormally under-expressed in the brains of Alzheimer's disease patients.

Product Note

Recommended dilution factor:

ELISA: 1:5000-20000

WB: 1:1000-10000

IFA: 1:100-1000

FACS: Assay dependent

Note: Working dilution for specific application should be determined by the investigator to obtain the best conditions.

Specifications

Host

Mouse

Clonality

Monoclonal

Isotype

IgG1

Clone Name

clone 50-1

Immunogen

GIF

Application

ELISA, WB, IFA, FACS

Concentration

1 mg/mL

Specificity

GIF

Reactivity

Human

Conjugation

Unconjugated

Storage Buffer

Phosphate Buffered Saline containing 0.03% ProClin 300, pH 7.4.

Form

Liquid

Instruction**Shipping**

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Stability & Storage

This product is stable after storage at:

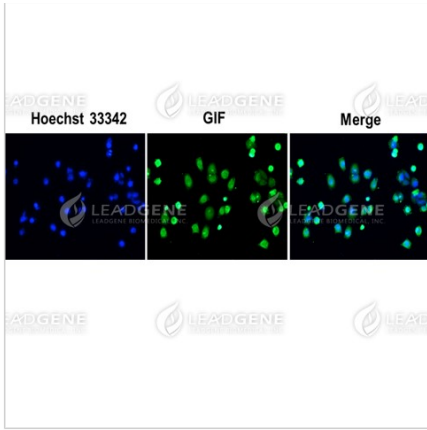
- 2-8°C for 2 weeks under sterile conditions from date of receipt.
- -20°C or -80°C for 12 months under sterile conditions from date of receipt.

Avoid repeated freeze/thaw cycles.

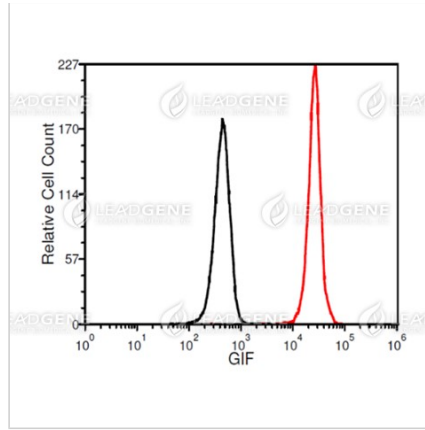
Suggestion: Divide antibody into several vials.

Keep only vials for usage at 2-8°C.

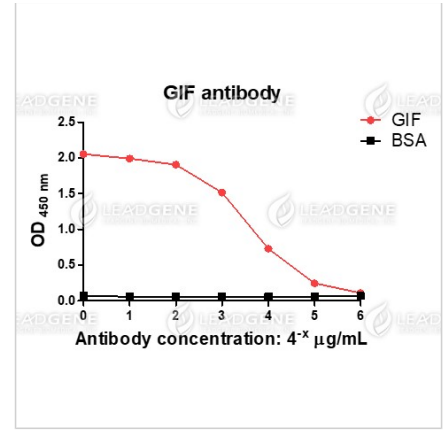
Image



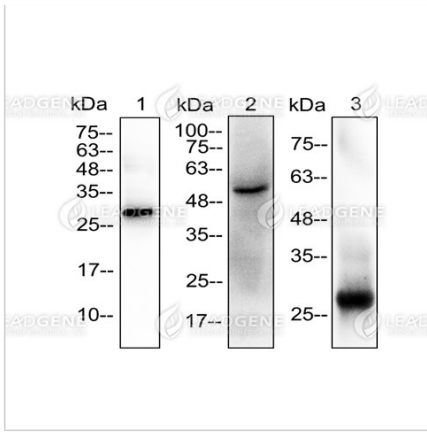
Immunofluorescence analysis of Anti-GIF Antibody [Clone 50-1] HeLa cells were fixed in 4% PFA, permeabilized with PBS containing 0.1% Triton X-100. Cells were stained with mouse anti-GIF monoclonal antibody (1:100) followed by secondary antibodies (goat anti-Mouse IgG-iFluor 488, 1:200, green) and cell nuclei were stained with Hoechst 33342 (Blue).



FACS analysis of Anti-GIF Antibody [Clone 50-1] K562 cells were stained with mouse anti-GIF monoclonal antibody at 2 $\mu\text{g/ml}$ (red) and without antibody control (black).



ELISA titration of Anti-GIF Antibody [Clone 50-1] Titration curve of anti-GIF antibody in ELISA. Red: GIF; Black: BSA (negative control).



Western blotting analysis of Anti-GIF Antibody [Clone 50-1]
 Recombinant proteins and mouse stomach lysates were stained with mouse anti-GIF monoclonal antibody at 1:5000 dilution. Lane 1: Recombinant GIF protein (100 ng). Lane 2: Mouse stomach lysate (30 μ g). Lane 3: Human gastric juice (10 μ L).

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