

## 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

#### Tainan Headquarter

+886-6-2536677 +886-6-2531536

info@leadgene.com.tw

#### Taipei Office

+886-2-27065528

**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:

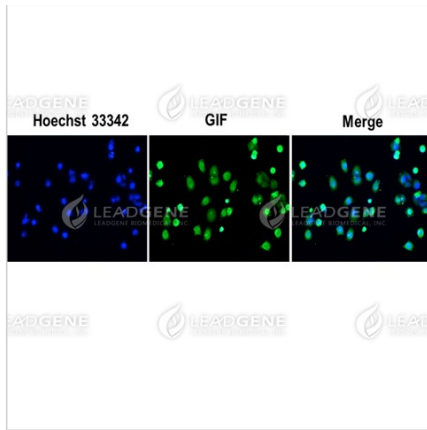
- 2-8°C for 2 weeks under sterile conditions from date of receipt.
- -20°C or -80°C for 12 months under sterile conditions from date of receipt.

Avoid repeated freeze/thaw cycles.

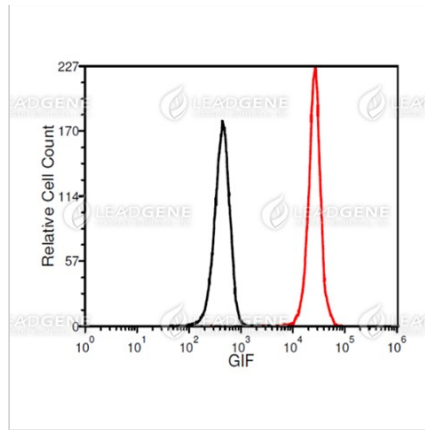
Suggestion: Divide antibody into several vials.

Keep only vials for usage at 2-8°C.

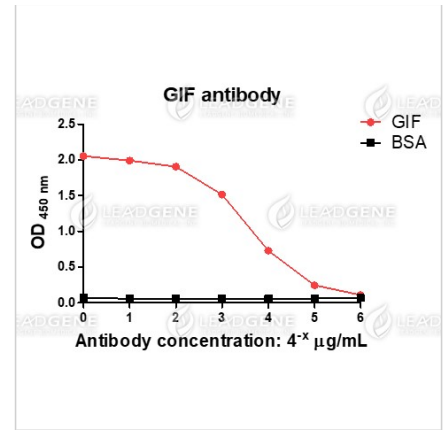
**Image****Tainan Headquarter** +886-6-2536677  +886-6-2531536 [info@leadgene.com.tw](mailto:info@leadgene.com.tw)**Taipei Office** +886-2-27065528



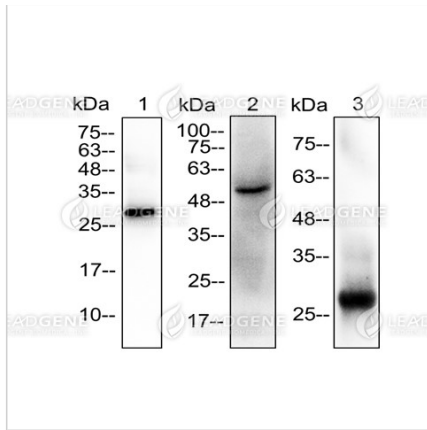
Immunofluorescence analysis of Anti-GIF Antibody [Clone 50-1]  
 HeLa cells were fixed in 4% PFA, permeabilized with PBS containing 0.1% Triton X-100. Cells were stained with mouse anti-GIF monoclonal antibody (1:100) followed by secondary antibodies (goat anti-Mouse IgG-iFluor 488, 1:200, green) and 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  $\mu$ g). Lane 3: Human gastric juice (10  $\mu$ L).

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