

# Product datasheet

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# ARG56922 anti-MIF antibody [4E4]

Package: 50 μl Store at: -20°C

### **Summary**

Product Description Mouse Monoclonal antibody [4E4] recognizes MIF

Tested Reactivity Hu

Tested Application ICC/IF, WB
Host Mouse

**Clonality** Monoclonal

Clone 4E4

Isotype IgG1, kappa

Target Name MIF
Species Human

Immunogen Recombinant fragment around aa. 1-114 of Human MIF.

Conjugation Un-conjugated

Alternate Names Phenylpyruvate tautomerase; L-dopachrome tautomerase; GLIF; L-dopachrome isomerase; MMIF;

Macrophage migration inhibitory factor; MIF; GIF; EC 5.3.2.1; Glycosylation-inhibiting factor; EC

5.3.3.12

# **Application Instructions**

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

#### **Properties**

Form Liquid

Purification Purification with Protein G.

Buffer PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 10% Glycerol

Concentration 1 mg/ml

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Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

#### Bioinformation

Database links GeneID: 4282 Human

Swiss-port # P14174 Human

Gene Symbol MIF

Gene Full Name macrophage migration inhibitory factor (glycosylation-inhibiting factor)

Background This gene encodes a lymphokine involved in cell-mediated immunity, immunoregulation, and

inflammation. It plays a role in the regulation of macrophage function in host defense through the suppression of anti-inflammatory effects of glucocorticoids. This lymphokine and the JAB1 protein form a complex in the cytosol near the peripheral plasma membrane, which may indicate an additional role

in integrin signaling pathways. [provided by RefSeq, Jul 2008]

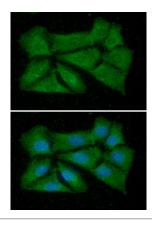
**Function** Pro-inflammatory cytokine. Involved in the innate immune response to bacterial pathogens. The

expression of MIF at sites of inflammation suggests a role as mediator in regulating the function of macrophages in host defense. Counteracts the anti-inflammatory activity of glucocorticoids. Has phenylpyruvate tautomerase and dopachrome tautomerase activity (in vitro), but the physiological substrate is not known. It is not clear whether the tautomerase activity has any physiological relevance,

and whether it is important for cytokine activity. [UniProt]

Calculated Mw 12 kDa

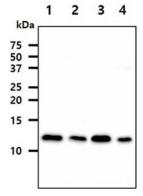
#### **Images**



#### ARG56922 anti-MIF antibody [4E4] ICC/IF image

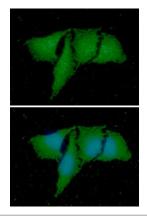
Immunoflorescense: Balb/3T3 cell line stained with ARG56922 anti-MIF antibody [4E4] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



# ARG56922 anti-MIF antibody [4E4] WB image

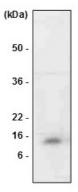
Western blot: 40  $\mu g$  of 1) Jurkat cell lysate, 2) THP-1 cell lysate, 3) HeLa cell lysate, and 4) U937 cell lysate stained with ARG56922 anti-MIF antibody [4E4] at 1:1000.



# ARG56922 anti-MIF antibody [4E4] ICC/IF image

Immunoflorescense: HeLa cell line stained with ARG56922 anti-MIF antibody [4E4] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



# ARG56922 anti-MIF antibody [4E4] WB image

Western blot: HL-60 cell lysate stained with ARG56922 anti-MIF antibody [4E4] at 1:1000.