

Rabbit Anti-MIF antibody

SL10242R

Product Name MIF

Chinese Name 巨噬细胞移动抑制因子抗体

Alias Macrophage Migration Inhibitory Factor; GIF; GLIF; Glycosylation inhibiting factor; MIF protein; MMIF; Phenylpyruvate tautomerase; acrophage migration inhibitory factor (glycosylation-inhibiting factor); L-dopachrome isomerase; MIF_HUMAN.

Research Area Cell biology immunology Signal transduction Growth factors and hormones transcriptional regulatory factor lymphocyte

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, (predicted: Mouse, Rat, Dog, Cow,)

Applications ICC/IF=1:50-200 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 12kDa

Cellular localization cytoplasmic Secretory protein

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human MIF: 51-115/115

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed [PubMed](#)

Product This gene encodes a lymphokine involved in cell-mediated immunity,

Detail

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.

Subunit:

Homotrimer. Interacts with CXCR2 extracellular domain. Interacts with the CD74 extracellular domain, COPS5 and BNIPL.

Subcellular Location:

Secreted. Cytoplasm. Note=Does not have a cleavable signal sequence and is secreted via a specialized, non-classical pathway. Secreted by macrophages upon stimulation by bacterial lipopolysaccharide (LPS), or by M.tuberculosis antigens.

DISEASE:

Genetic variations in MIF are associated with susceptibility to rheumatoid arthritis systemic juvenile (RASJ) [MIM:604302]. An inflammatory articular disorder with systemic-onset beginning before the age of 16. It represents a subgroup of juvenile arthritis associated with severe extraarticular features and occasionally fatal complications. During active phases of the disorder, patients display a typical daily spiking fever, an evanescent macular rash, lymphadenopathy, hepatosplenomegaly, serositis, myalgia and arthritis.

Similarity:

Belongs to the MIF family.

SWISS:

P14174

Gene ID:

4282

Database links:



[Entrez Gene: 4282](#) Human

[Entrez Gene: 17319](#) Mouse

[Entrez Gene: 81683](#) Rat

[Omim: 153620](#) Human

[SwissProt: P14174](#) Human

[SwissProt: P34884](#) Mouse

[SwissProt: P30904](#) Rat

[Unigene: 407995](#) Human

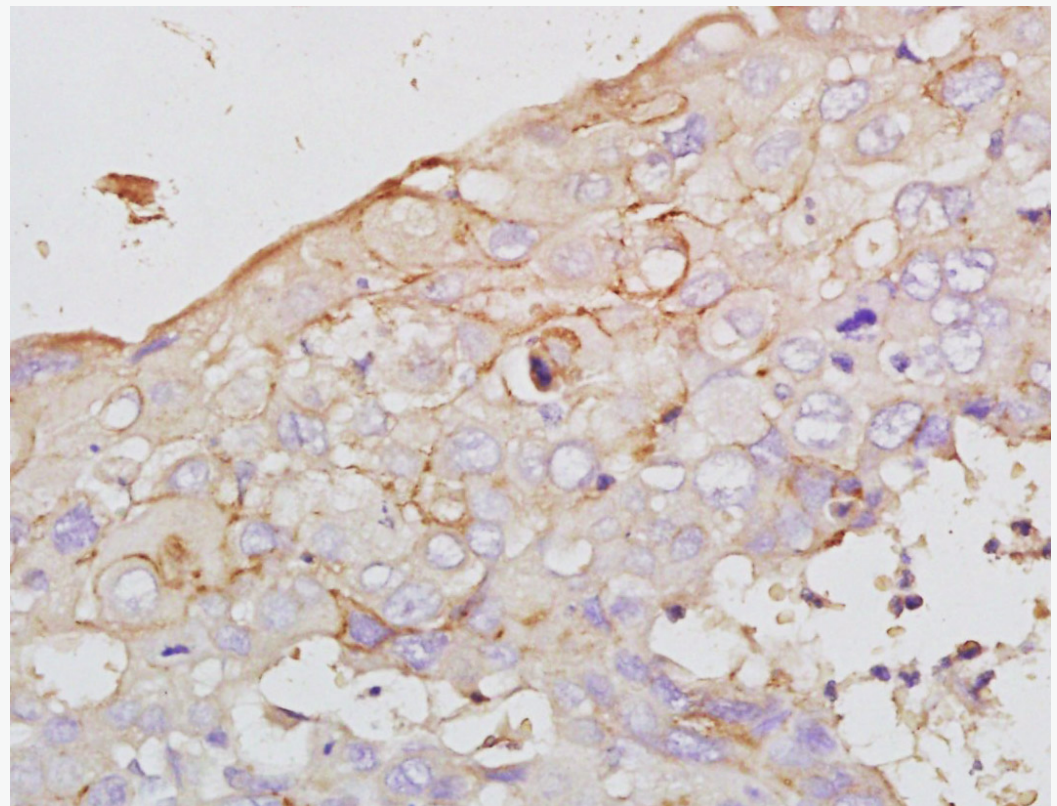
[Unigene: 2326](#) Mouse

[Unigene: 2661](#)Rat

[Unigene: 2326](#) Mouse

[Unigene: 2661](#) Rat

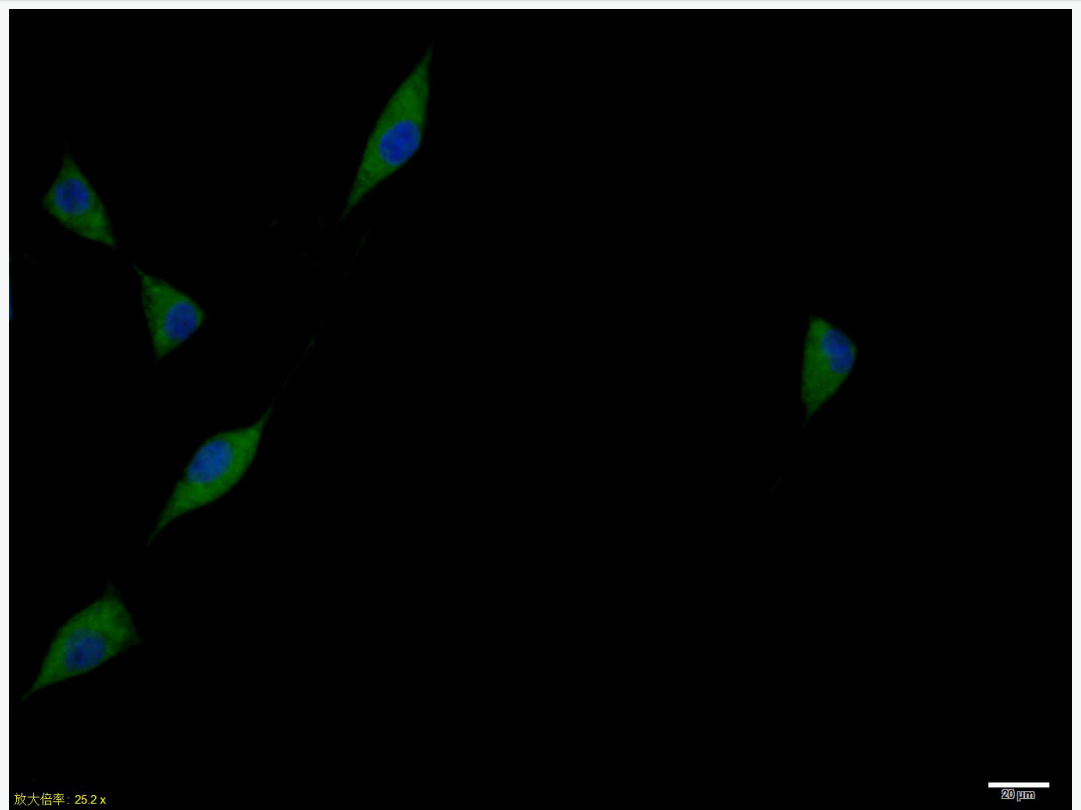
**Product
Picture**



Tissue/cell: human laryngocarcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-MIF Polyclonal Antibody, Unconjugated(SL10242R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



SHSY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (MIF) polyclonal Antibody, Unconjugated (SL10242R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.