

MIF Antibody (clone 4E4)
Mouse Monoclonal Antibody
Catalog # ALS12541**Specification****MIF Antibody (clone 4E4) - Product Information**

Application	IHC
Primary Accession	P14174
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	12kDa KDa

MIF Antibody (clone 4E4) - Additional Information**Gene ID** 4282**Other Names**

Macrophage migration inhibitory factor, MIF, 5.3.2.1, Glycosylation-inhibiting factor, GIF, L-dopachrome isomerase, L-dopachrome tautomerase, 5.3.3.12, Phenylpyruvate tautomerase, MIF, GLIF, MMIF

Reconstitution & Storage

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions

MIF Antibody (clone 4E4) is for research use only and not for use in diagnostic or therapeutic procedures.

MIF Antibody (clone 4E4) - Protein Information**Name** MIF {ECO:0000303|PubMed:2552447, ECO:0000312|HGNC:HGNC:7097}**Function**

Pro-inflammatory cytokine involved in the innate immune response to bacterial pathogens (PubMed: [15908412](http://www.uniprot.org/citations/15908412), PubMed: [17443469](http://www.uniprot.org/citations/17443469), PubMed: [23776208](http://www.uniprot.org/citations/23776208)). The expression of MIF at sites of inflammation suggests a role as mediator in regulating the function of macrophages in host defense (PubMed: [15908412](http://www.uniprot.org/citations/15908412), PubMed: [17443469](http://www.uniprot.org/citations/17443469), PubMed: [23776208](http://www.uniprot.org/citations/23776208)). Counteracts the anti-inflammatory activity of glucocorticoids (PubMed: [15908412](http://www.uniprot.org/citations/15908412), PubMed: [17443469](http://www.uniprot.org/citations/17443469), PubMed: [23776208](http://www.uniprot.org/citations/23776208)). Has phenylpyruvate tautomerase and dopachrome tautomerase activity (in vitro), but the physiological

substrate is not known (PubMed:11439086, PubMed:17526494). It is not clear whether the tautomerase activity has any physiological relevance, and whether it is important for cytokine activity (PubMed:11439086, PubMed:17526494).

Cellular Location

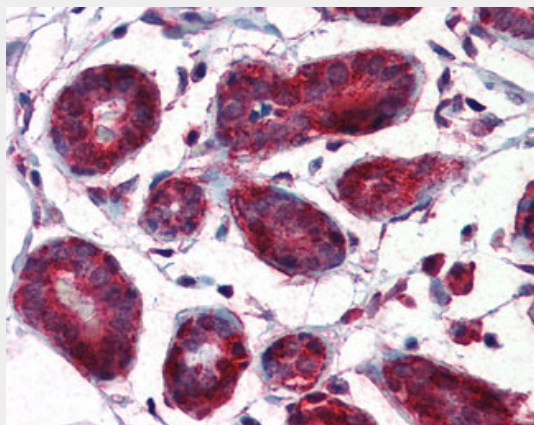
Secreted. Cytoplasm. Note=Does not have a cleavable signal sequence and is secreted via a specialized, non-classical pathway Secreted by macrophages upon stimulation by bacterial lipopolysaccharide (LPS), or by M.tuberculosis antigens

MIF Antibody (clone 4E4) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MIF Antibody (clone 4E4) - Images



Anti-MIF antibody IHC of human breast.

MIF Antibody (clone 4E4) - Background

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.

MIF Antibody (clone 4E4) - References

Weiser W.Y., et al. Proc. Natl. Acad. Sci. U.S.A. 86:7522-7526(1989).

Mikayama T.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:10056-10060(1993).
Bernhagen J.,et al.Biochemistry 33:14144-14155(1994).
Paralkar V.,et al.Genomics 19:48-51(1994).
Shan Z.X.,et al.Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases.