

MIF Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11004**Specification**

MIF Antibody - Product Information

Application	WB, IP
Primary Accession	P14174
Other Accession	CAG46452
Reactivity	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	12476

MIF Antibody - Additional Information**Gene ID** 4282

Application & Usage Western blotting (0.5-4 µg/ml) and immunoprecipitation (5-10 µg/ml). However, the optimal conditions should be determined individually.

Other Names

macrophage migration inhibitory factor, Phenylpyruvate tautomerase, Glycosylation-inhibiting factor, GIF

Target/Specificity

MIF

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.2 mg/ml) affinity purified rabbit anti-MIF polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

MIF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MIF Antibody - 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, PubMed:17443469, PubMed: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, PubMed:17443469, PubMed:23776208). Counteracts the anti-inflammatory activity of glucocorticoids (PubMed:15908412, PubMed:17443469, PubMed: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 - 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 - Images

MIF Antibody - Background

MIF (macrophage migration inhibitory factor) was one of the first cytokine activities to be discovered and was initially described as a T cell-derived factor that inhibits the random migration of microphages. Recently, MIF was rediscovered as a pituitary hormone that acts as the counter-regulatory hormone for glucocorticoid action within the immune system. MIF was released

from macrophages and T-cells in response to physiological concentrations of glucocorticoids. The secreted MIF counter-regulates the immunosuppressive effects of steroids on immune cell activation and cytokine production. MIF also plays a critical role in the host control of inflammation and immunity.