

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

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**MIF Antibody - Product Information**

Application	WB, IP
Primary Accession	<a href="#">P14174</a>
Other Accession	<a href="#">CAG46452</a>
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:<a href="http://www.uniprot.org/citations/15908412" target="\_blank">15908412</a>, PubMed:<a href="http://www.uniprot.org/citations/17443469" target="\_blank">17443469</a>, PubMed:<a href="http://www.uniprot.org/citations/23776208" target="\_blank">23776208</a>). The expression of MIF at sites of inflammation suggests a role as mediator in regulating the function of macrophages in host defense (PubMed:<a href="http://www.uniprot.org/citations/15908412" target="\_blank">15908412</a>, PubMed:<a href="http://www.uniprot.org/citations/17443469" target="\_blank">17443469</a>, PubMed:<a href="http://www.uniprot.org/citations/23776208" target="\_blank">23776208</a>). Counteracts the anti-inflammatory activity of glucocorticoids (PubMed:<a href="http://www.uniprot.org/citations/15908412" target="\_blank">15908412</a>, PubMed:<a href="http://www.uniprot.org/citations/17443469" target="\_blank">17443469</a>, PubMed:<a href="http://www.uniprot.org/citations/23776208" target="\_blank">23776208</a>). Has phenylpyruvate tautomerase and dopachrome tautomerase activity (in vitro), but the physiological substrate is not known (PubMed:<a href="http://www.uniprot.org/citations/11439086" target="\_blank">11439086</a>, PubMed:<a href="http://www.uniprot.org/citations/17526494" target="\_blank">17526494</a>). It is not clear whether the tautomerase activity has any physiological relevance, and whether it is important for cytokine activity (PubMed:<a href="http://www.uniprot.org/citations/11439086" target="\_blank">11439086</a>, PubMed:<a href="http://www.uniprot.org/citations/17526494" target="\_blank">17526494</a>).

### 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.