

**MIF Blocking Peptide**  
**Catalog # PBV10493b****Specification**

---

**MIF Blocking Peptide - Product Information**

|                   |                          |
|-------------------|--------------------------|
| Primary Accession | <a href="#">P14174</a>   |
| Other Accession   | <a href="#">CAG46452</a> |
| Gene ID           | 4282                     |
| Calculated MW     | 12476                    |

**MIF Blocking Peptide - Additional Information****Gene ID** 4282**Application & Usage**

The peptide is used for blocking the antibody activity of MIF. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

**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

**Target/Specificity**

MIF

**Formulation**

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

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

**MIF Blocking Peptide - 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 Blocking Peptide - 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 Blocking Peptide - Images**