

**MIF, Biotinylated**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1672b****Specification**

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**MIF, Biotinylated - Product Information**

Application	<b>WB, Pep-ELISA</b>
Primary Accession	<a href="#">P14174</a>
Other Accession	<a href="#">NP_002406</a> , <a href="#">4282</a>
Reactivity	<b>Human</b>
Predicted	<b>Mouse, Rat</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>0.5 mg/ml</b>
Isotype	<b>IgG</b>
Calculated MW	<b>12476</b>

**MIF, Biotinylated - 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

**Dilution**

WB~~1:1000  
Pep-ELISA~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

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

**MIF, Biotinylated - 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

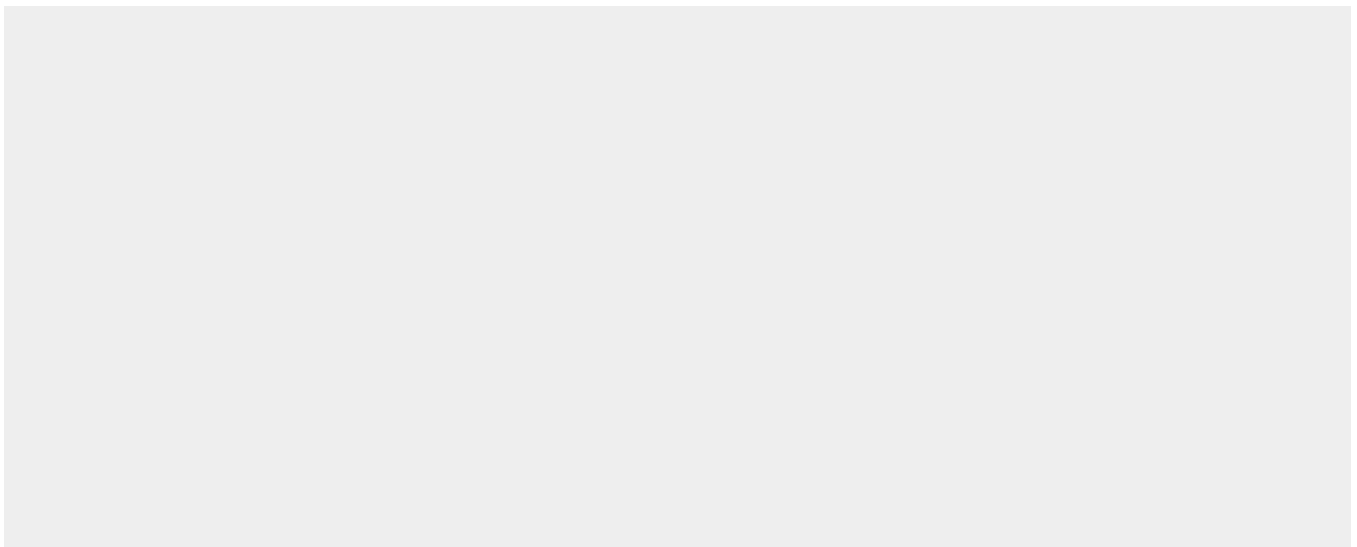
Secreted. Cytoplasm. Note=Does not have a cleavable signal sequence and is secreted via a specialized, non-classical pathway Secreted by macrophages upon stimulation by bacterial lipopolysaccharide (LPS), or by M.tuberculosis antigens

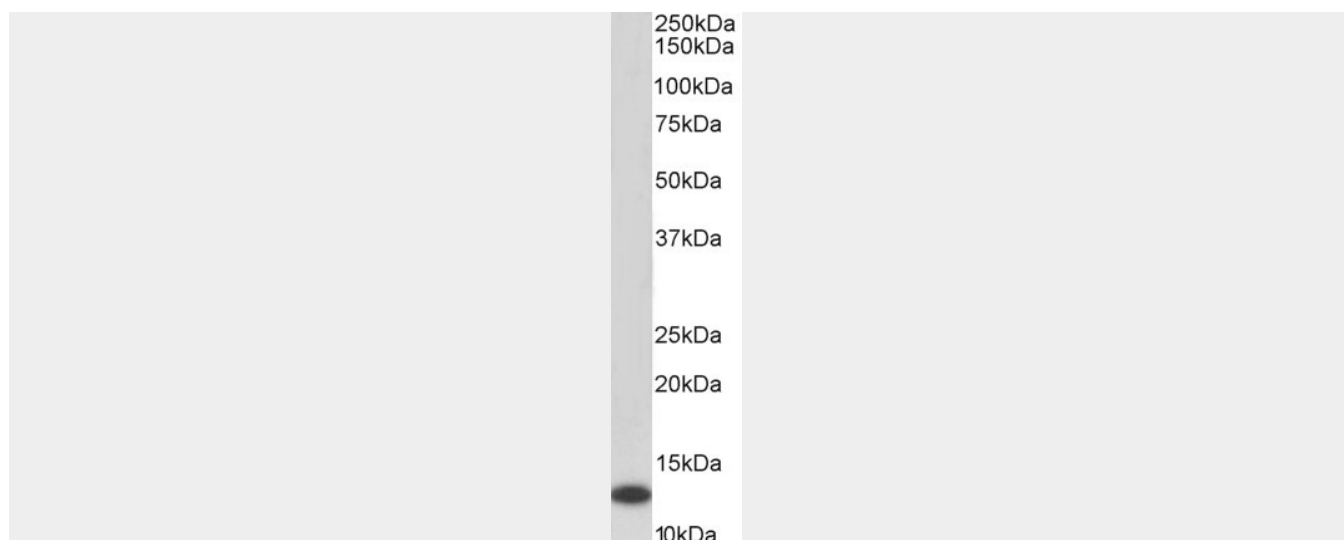
### MIF, Biotinylated - Protocols

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, Biotinylated - Images





Biotinylated EB06765 (0.2µg/ml) staining of Daudi lysate (35µg protein in RIPA buffer), exactly mirroring its parental non-biotinylated product. Primary incubation was 1 hour. Detected by chemiluminescence, using streptavidin-HRP and using NAP blocker as

#### **MIF, Biotinylated - Background**

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

#### **MIF, Biotinylated - References**

A genetic association study of maternal and fetal candidate genes that predispose to preterm prelabor rupture of membranes (PROM). Romero R, et al. Am J Obstet Gynecol, 2010 Jul 29. PMID 20673868.

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Association between functional promoter polymorphisms of macrophage migration inhibitory factor (MIF) gene and ulcerative colitis in Japan. Shiroeda H, et al. Cytokine, 2010 Aug. PMID 20621719.

Polymorphisms of the macrophage migration inhibitory factor gene in a UK population with Type 1 diabetes mellitus. Martin RJ, et al. Diabet Med, 2010 Feb. PMID 20546256.

Allosteric inhibition of macrophage migration inhibitory factor revealed by ibudilast. Cho Y, et al. Proc Natl Acad Sci U S A, 2010 Jun 22. PMID 20534506.