

Goat Anti-MIF Antibody
Peptide-affinity purified goat antibody
Catalog # AF1672a**Specification**

Goat Anti-MIF Antibody - Product Information

Application	EIA, WB, IHC
Primary Accession	P14174
Other Accession	NP_002406 , 4282
Reactivity	Human
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	12476

Goat Anti-MIF Antibody - 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

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

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

Goat Anti-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

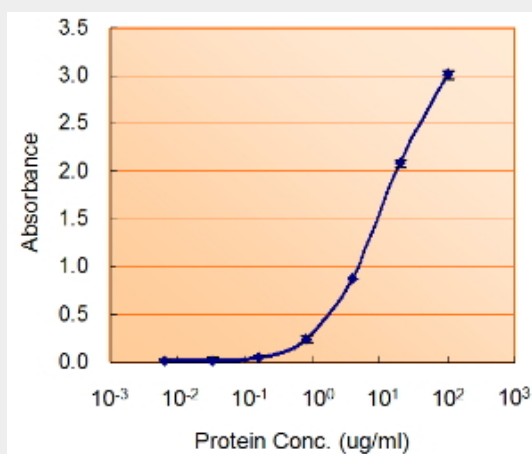
Secreted. Cytoplasm. Note=Does not have a cleavable signal sequence and is secreted via a specialized, non-classical pathway Secreted by macrophages upon stimulation by bacterial lipopolysaccharide (LPS), or by M.tuberculosis antigens

Goat Anti-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](#)

Goat Anti-MIF Antibody - Images



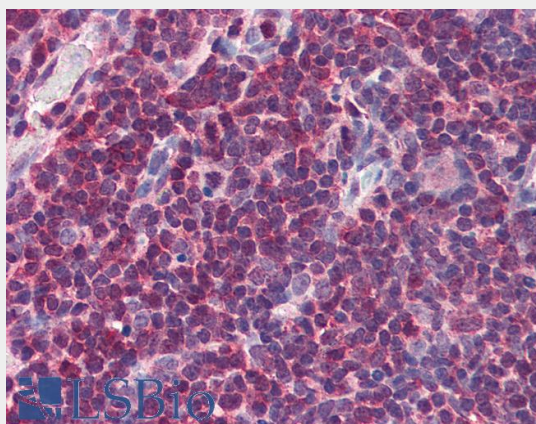
AF1672a (1.5ug/ml) as the reporter with EB002005 as the capture rabbit antibody (5ug/ml).



AF1672a (0.01 μ g/ml) staining of Human Thymus lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.



AF1672a (0.01 μ g/ml) staining of Daudi (A) and Jurkat (B) lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.



AF1672a (5 μ g/ml) staining of paraffin embedded Human Thymus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-MIF Antibody - 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.

Goat Anti-MIF Antibody - 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 Thiazolinedinedione-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.