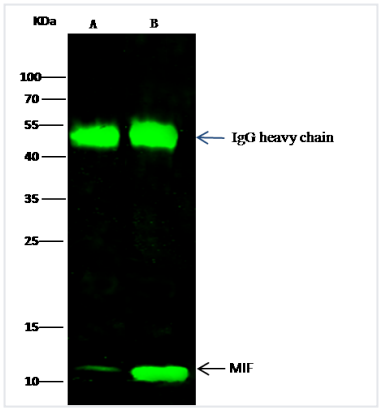
MIF Antibody – Rabbit Polyclonal

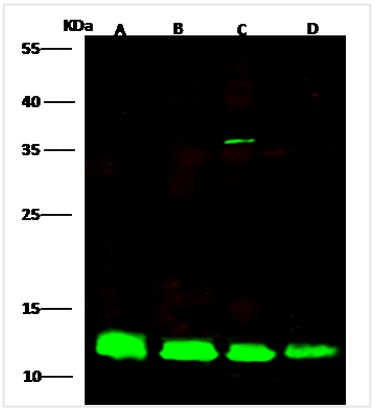
PRODUCT OVERVIEW

Product Name	MIF, Polyclonal Antibody
Full Product Name	Anti-MIF Antibody, Rabbit Polyclonal
Product Gene Name	anti-MIF antibody
Product Synonym Names	MIF Antibody, Rabbit PAb, Antigen Affinity Purified; macrophage migration inhibitory factor (glycosylation-inhibiting factor); Anti-GIF Antibody; Anti-Glif Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Mouse MIF
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	12,504 Da
3D Structure	ModBase 3D Structure for P34884
Immunogen	Recombinant Mouse MIF protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse MIF. MIF specific IgG was purified by Mouse MIF affinity chromatography.
Applications Tested/Suitable for anti-MIF antibody	Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Application Notes for anti-MIF antibody	WB: 1:500-1:2000 ELISA: 1:5000-1:10,000 IP: 4-6uL/mg of lysate
Related Product Information for anti-MIF antibody	Macrophage migration inhibitory factor (MIF) is an immunoregulatory cytokine, the effect of which on arresting random immune cell movement was recognized several decades ago. Despite its historic name, MIF also has a direct chemokine-like function and promotes cell recruitment. MIF is a ubiquitously expressed protein that plays a crucial role in many inflammatory and autoimmune disorders. Increasing evidence suggests that MIF also controls metabolic and inflammatory processes underlying the development of metabolic pathologies associated with obesity. Further research has shown that MIF plays a particularly critical part in cell cycle regulation and therefore in tumorigenesis as well. The significance of the role of MIF in a variety of both solid and hematologic tumors has been established. More recently, interest has increased in the role of MIF in the development of the central nervous system (CNS) tumors, in which it appears to influence cell cycle control. MIF contributes to malignant disease progression on several different levels. Both circulating and intracellular MIF protein levels are elevated in cancer patients and MIF expression reportedly correlates with stage, metastatic spread, and disease-free survival. Blockade of MIF bioactivity successfully inhibited tumor cell growth in vivo and in vitro. MIF plays important role in the pathogenesis of gastrointestinal, hepatic, and pancreatic disorders.

Product References and Citations for anti-MIF antibody	Ohkawara T, et al. (2005) Pathophysiological roles of macrophage migration inhibitory factor in gastrointestinal, hepatic, and pancreatic disorders. J Gastroenterol. 40(2): 117-22.Bach JP, et al.. (2009) The role of macrophage inhibitory factor in tumorigenesis and central nervous system tumors. Cancer. 115(10): 2031-40.Rendon BE, et al.. (2009) Mechanisms of macrophage migration inhibitory factor (MIF)-dependent tumor microenvironmental adaptation. Exp Mol Pathol. 86(3): 180-5.Grieb G, et al. (2010) Macrophage migration inhibitory factor (MIF): a promising biomarker. Drug News Perspect. 23(4): 257-64.
Other Notes	Small volumes of anti-MIF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MIF purchase	MBS8110892 is an antibody targeting MIF. Also known as Anti-MIF Antibody, Rabbit Polyclonal. Reactive in Mouse. Host: Rabbit.



Immunoprecipitation (IP) of anti-MIF antibody
Mouse MIF was immunoprecipitated using:Lane A:0.5 mg THP-1 Whole Cell LysateLane B:0.5 mg Raw264.7 Whole Cell Lysate2 uL anti-Mouse MIF rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-Mouse MIF rabbit polyclonal antibody,at 1:200 dilution Secondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odssey technique.Performed under reducing conditions.Predicted band size: 12 kDaObserved band size: 12 kDa



Western Blot (WB) of anti-MIF antibody
Anti-MIF rabbit polyclonal antibody at 1:500 dilutionLane A: U937 Whole Cell LysateLane B: HL60 Whole Cell LysateLane C: Jurkat Whole Cell LysateLane D: Raw264.7 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique. Performed under reducing conditions.Predicted band size:12 kDaObserved band size:12 kDa

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MIF. It may not necessarily be applicable to this product.

NCBI GI #	6754696
NCBI GeneID	17319
NCBI Accession #	NP_034928.1
UniProt Primary Accession #	P34884
UniProt Related Accession #	P34884
GenBank Nucleotide #	NM_010798.2
NCBI Official Full Name	macrophage migration inhibitory factor
NCBI Official Synonym Full Names	macrophage migration inhibitory factor
NCBI Official Symbol	Mif
NCBI Official Synonym Symbols	GIF; Glif
UniProt Protein Name	Macrophage migration inhibitory factor
UniProt Synonym Protein Names	Delayed early response protein 6; DER6; Glycosylation-inhibiting factor; GIF; L-dopachrome isomerase; L-dopachrome tautomerase (EC:5.3.3.12); Phenylpyruvate tautomerase
Protein Family	Macrophage migration inhibitory factor
UniProt Gene Name	Mif

UniProt Synonym Gene Names	MIF; DER6; GIF
UniProt Entry Name	MIF_MOUSE
NCBI Protein Information	macrophage migration inhibitory factor
UniProt Comments for MIF	MIF: 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. Also acts as a phenylpyruvate tautomerase. Protein type: Amino Acid Metabolism - phenylalanine; Amino Acid Metabolism - tyrosine; Apoptosis; Cell development/differentiation; Cytokine; EC 5.3.2.1; EC 5.3.3.12; Isomerase Cellular Component: cell surface; cytoplasm; extracellular region; extracellular space; myelin sheath; nucleoplasm; nucleus; vesicle Molecular Function: chemoattractant activity; cytokine activity; dopachrome isomerase activity; hematopoietin/interferon-class (D200-domain) cytokine receptor binding; phenylpyruvate tautomerase activity; protein complex binding; receptor binding Biological Process: brain renin-angiotensin system; carboxylic acid metabolic process; cell aging; cell proliferation; cell surface receptor linked signal transduction; DNA damage response, signal transduction by p53 class mediator; drinking behavior; negative regulation of apoptosis; negative regulation of cellular protein metabolic process; negative regulation of DNA damage response, signal transduction by p53 class mediator; negative regulation of mature B cell apoptosis; negative regulation of myeloid cell apoptosis; positive regulation of acute inflammatory response; positive regulation of axon regeneration; positive regulation of B cell proliferation; positive regulation of cytokine secretion; positive regulation of fibroblast proliferation; positive regulation of glucose import; positive regulation of glycolysis; positive regulation of immune response; positive regulation of lipopolysaccharide-mediated signaling pathway; positive regulation of MAP kinase activity; positive regulation of peptidyl-serine phosphorylation; positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of phosphorylation; positive regulation of potassium ion transport; positive regulation of protein amino acid phosphorylation; positive regulation of smooth muscle cell migration; prostaglandin biosynthetic process; regulation of cell proliferation; spermatogenesis
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-mouse-antibody/mif/8110892