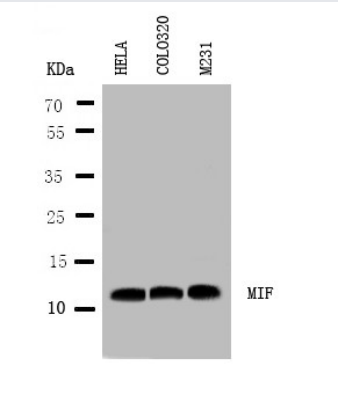
MIF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MIF, Polyclonal Antibody
Full Product Name	Anti-MIF antibody
Product Gene Name	anti-MIF antibody
Product Synonym Names	Macrophage migration inhibitory factor(MIF); macrophage migration inhibitory factor(glycosylation-inhibiting factor); acrophage migration inhibitory factor(glycosylation-inhibiting factor) antibody; GIF antibody; GLIF antibody; Glycosylation inhibiting factor antibody; Glycosylation-inhibiting factor antibody; L-dopachrome isomerase antibody; L-dopachrome tautomerase antibody; Macrophage migration inhibitory factor antibody; MIF antibody; MIF protein antibody; MMIF antibody; Phenylpyruvate tautomerase antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized
Purity/Purification	Immunogen affinity purified.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
Molecular Weight	12,476 Da
OMIM	gene 604302
3D Structure	ModBase 3D Structure for P14174
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MIF (98-115aa NYYDMNAANVGWNNSTFA), different from the related rat and mouse sequences by one amino acid.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-MIF antibody	Western Blot (WB), Immunohistochemistry (IHC) Paraffin
Related Product Information for anti-MIF antibody	**Description:** Rabbit IgG polyclonal antibody for Macrophage migration inhibitory factor(MIF) detection. Tested with WB,IHC-P in Human, Mouse, Rat. **Background:** Macrophage migration inhibitory factor, MIF, is a cytokine released by T-lymphocytes, macrophages, and the pituitary gland that serves to integrate peripheral and central inflammatory responses. MIF gene has 3 exons separated by introns of only 189 and 95 bp, and covers less than 1 kb. Localization of the human gene for macrophage migration inhibitory factor(MIF) to chromosome 22q11.2 MIF plays a critical role in inflammatory diseases and atherogenesis.
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	MBS175352 is an antibody targeting MIF. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-MIF antibody
Anti-MIF antibody, MBS175352, Western blottingLane 1: HELA Cell LysateLane 2: COLO320 Cell LysateLane 3: MM231 Cell Lysate

ADDITIONAL DETAILS

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

NCBI GI #	1170955
NCBI GeneID	4282
NCBI Accession #	P14174.4
UniProt Primary Accession #	P14174
UniProt Secondary Accession #	Q2V4Y5; Q6FHV0; A5Z1R8; B2R4S3
UniProt Related Accession #	P14174
NCBI Official Full Name	Macrophage migration inhibitory factor
NCBI Official Synonym Full Names	macrophage migration inhibitory factor (glycosylation-inhibiting factor)
NCBI Official Symbol	MIF
NCBI Official Synonym Symbols	GIF; GLIF; MMIF
UniProt Protein Name	Macrophage migration inhibitory factor
UniProt Synonym Protein Names	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	GLIF; MMIF; MIF; GIF
UniProt Entry Name	MIF_HUMAN
NCBI Protein Information	macrophage migration inhibitory factor; L-dopachrome isomerase; L-dopachrome tautomerase; phenylpyruvate tautomerase
NCBI Summary for MIF	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. [provided by RefSeq, Jul 2008]

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: Cell development/differentiation; Amino Acid Metabolism - phenylalanine; Amino Acid Metabolism - tyrosine; EC 5.3.2.1; Apoptosis; EC 5.3.3.12; Isomerase; Cytokine Chromosomal Location of Human Ortholog: 22q11.23 Cellular Component: nucleoplasm; extracellular space; cell surface; cytoplasm; extracellular region; vesicle Molecular Function: phenylpyruvate tautomerase activity; protein binding; hematopoietin/interferon-class (D200-domain) cytokine receptor binding; cytokine activity; dopachrome isomerase activity; receptor binding; chemoattractant activity Biological Process: DNA damage response, signal transduction by p53 class mediator; regulation of macrophage activation; carboxylic acid metabolic process; positive regulation of lipopolysaccharide-mediated signaling pathway; cell aging; negative regulation of cellular protein metabolic process; prostaglandin biosynthetic process; positive regulation of peptidyl-serine phosphorylation; positive regulation of MAP kinase activity; negative regulation of DNA damage response, signal transduction by p53 class mediator; cell proliferation; negative regulation of myeloid cell apoptosis; positive regulation of fibroblast proliferation; positive regulation of peptidyl-tyrosine phosphorylation; cell surface receptor linked signal transduction; negative regulation of mature B cell apoptosis; positive chemotaxis; positive regulation of B cell proliferation; innate immune response; inflammatory response; positive regulation of phosphorylation; positive regulation of cytokine secretion; negative regulation of apoptosis Disease: Rheumatoid Arthritis, Systemic Juvenile
Research Articles on MIF	**1.** Increased expression of MIF and DJ-1 induced cell invasion and metastasis of nasopharyngeal carcinoma.
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