MIF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MIF, Polyclonal Antibody
Full Product Name	MIF (Glycosylation-inhibiting factor) (MaxLight 550)
Product Gene Name	anti-MIF antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with MaxLight550.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human MIF. No crossreactivity with other proteins.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	12,476 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (24236565..24237409). Location: 22q11.23
OMIM	153620
3D Structure	ModBase 3D Structure for P14174
Immunogen	E. coli-derived human MIF recombinant protein (Position: M1-A115).
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-MIF antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-MIF antibody	FLISA, Western Blot (WB)
Application Notes for anti-MIF antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MIF antibody	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.

Product References and Citations for anti-MIF antibody	1. Bernhagen, J.; Krohn, R.; Lue, H.; Gregory, J. L.; Zernecke, A.; Koenen, R. R.; Dewor, M.; Georgiev, I.; Schober, A.; Leng, L.; Kooistra, T.; Fingerle-Rowson, G.; Ghezzi, P.; Kleemann, R.; McColl, S. R.; Bucala, R.; Hickey, M. J.; Weber, C.: MIF is a noncognate ligand of CXC chemokine receptors in inflammatory and atherogenic cell recruitment. Nature Med. 13: 587-596, 2007. 2. Bozza, M.; Kolakowski, L. F., Jr.; Jenkins, N. A.; Gilbert, D. J.; Copeland, N. G.; David, J. R.; Gerard, C.: Structural characterization and chromosomal location of the mouse macrophage migration inhibitory factor gene and pseudogenes. Genomics 27: 412-419, 1995 3. Budarf, M.; McDonald, T.; Sellinger, B.; Kozak, C.; Graham, C.; Wistow, G.: Localization of the human gene for macrophage migration inhibitory factor (MIF) to chromosome 22q11. 2. Genomics 39: 235-236, 1997.
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	MBS6404541 is an antibody targeting MIF. Also known as MIF (Glycosylation-inhibiting factor) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	4505185
NCBI GeneID	4282
NCBI Accession #	NP_002406.1
UniProt Primary Accession #	P14174
UniProt Secondary Accession #	Q2V4Y5; Q6FHV0; A5Z1R8; B2R4S3
UniProt Related Accession #	P14174
GenBank Nucleotide #	NM_002415.1
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: Amino Acid Metabolism - tyrosine; Apoptosis; Cytokine; EC 5.3.3.12; Amino Acid Metabolism - phenylalanine; Cell development/differentiation; Isomerase; EC 5.3.2.1 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; positive regulation of lipopolysaccharide-mediated signaling pathway; carboxylic acid metabolic process; 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; positive regulation of fibroblast proliferation; positive regulation of peptidyl-tyrosine phosphorylation; negative regulation of myeloid cell apoptosis; 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; negative regulation of apoptosis; positive regulation of cytokine secretion Disease: Rheumatoid Arthritis, Systemic Juvenile
Research Articles on MIF	**1.** Gene knockdown of MIF, CXCR2 or CXCL8 disrupts the growth nasopharyngeal carcinoma tumor spheres.
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