MIF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MIF, Polyclonal Antibody
Full Product Name	MIF (Macrophage Migration Inhibitory Factor, Glycosylation-inhibiting Factor, GIF, L-dopachrome Isomerase, L-dopachrome Tautomerase, Phenylpyru GLIF, MMIF) (MaxLight 490)
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. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MIF.
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 amo immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of produc 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	Full length human MIF, aa1-115 (NP_002406.1).
Immunogen Sequence	MPMFIVNTNVPRASVPDGFLSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSIGKIGGAQNRSYSKLLCGLLAERLRISPDRVYINYYD
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-MIF antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-MIF antibody	Western Blot (WB)
Application Notes for anti-MIF antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-MIF antibody	MIF (macrophage migration inhibitory factor) was one of the first cytokine activities to be discovered and was initially described as a T cell-derived facto random migration of microphages. Recently, MIF was rediscovered as a pituitary hormone that acts as the counter-regulatory hormone for glucocortico immune system. MIF was released from macrophages and T-cells in response to physiological concentrations of glucocorticoids. The secreted MIF cou immunosuppressive effects of steroids on immune cell activation and cytokine production. MIF also plays a critical role in the host control of inflammatio
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 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
Searchable Terms for MIF purchase	MBS6385473 is an antibody targeting MIF. Also known as MIF (Macrophage Migration Inhibitory Factor, Glycosylation-inhibiting Factor, GIF, L-dopach dopachrome Tautomerase, Phenylpyruvate Tautomerase, GLIF, MMIF) (MaxLight 490). 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
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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