

## Biotin anti-human MIF Antibody

<b>Catalog# / Size</b>	525503 / 50 µg 525504 / 500 µg
<b>Clone</b>	10C3
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Macrophage migration inhibitory factor (MMIF), Glycosylation inhibiting factor (GIF), GLIF
<b>Isotype</b>	Mouse IgG2b, κ
<b>Description</b>	<p>Human macrophage migration inhibitory factor (MIF) is a 12.5 kD, 115 amino acid, non-glycosylated polypeptide expressed by multiple cell types, including activated T cells, macrophages, eosinophils, epithelial cells, and endothelial cells. MIF plays many roles in biological processes such as catalytic activity, immunity, endocrine regulation, signal modulation, and inflammation.</p> <p>MIF is expressed in malignant cells including lung, liver, breast, colon, and prostate tumors. Studies suggest that MIF might serve as a molecular link between chronic inflammation and cancer.</p> <p>Recombinant MIF consists of a mixture of monomers, dimers, and trimers. The physiologically active forms are believed to be predominantly dimeric and trimeric forms.</p>

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Recombinant human MIF with a His tag
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">ELISA Detection - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this protein is quality control tested by <a href="#">ELISA assay</a> . A concentration of 0.125 µg/ml of the detection antibody was utilized to generate the example standard curve. It is recommended that each lot of reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	<p><b>ELISA:</b> To measure human MIF, the purified 10C3 antibody (Cat. No. 525501) is useful as the capture antibody in a sandwich ELISA assay, when used in conjunction with the biotinylated 10C3 antibody (Cat. No. 525503) as the detection antibody.</p> <p><b>Additional reported applications (for the relevant formats) include:</b> functional assay<sup>1</sup> and neutralization<sup>1</sup>. The LEAF™ purified antibody (Endotoxin &lt;0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (<a href="#">contact our custom solutions team</a>).</p> <p><b>Note:</b> For testing human MIF in serum, plasma or cell culture supernatant, BioLegend's LEGEND MAX™ ELISA Kits (Cat. No. 438407 &amp; 438408) are specially developed and recommended.</p>
<b>Application References</b>	1. Zhou H, <i>et al.</i> 2009. <i>PLoS ONE</i> . 4:e6087. (FA, Neut)
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_2563135 (BioLegend Cat. No. 525503)

## Antigen Details

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<b>Structure</b>	Predominantly a homotrimer
<b>Distribution</b>	Activated T-cells, macrophages, eosinophils, epithelial cells, and endothelial cells
<b>Function</b>	Pro-inflammatory cytokine, regulates macrophage function, involved in cancer development, tautomerase activity
<b>Interaction</b>	Monocytes and macrophages, mesenchymal cells, B-cells
<b>Ligand/Receptor</b>	CD74, CXCR4, CXCR2, CXCR7
<b>Cell Type</b>	Endothelial cells, Eosinophils, Epithelial cells, Macrophages, T cells
<b>Biology Area</b>	Angiogenesis, Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Cell Cycle/DNA Replication, Immunology, Innate Immunity, Signal Transduction
<b>Molecular Family</b>	Cytokines/Chemokines
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Zhou H, <i>et al.</i> 2009. <i>PLoS ONE</i>. 4:e6087.</li><li>2. Potolicchio I, <i>et al.</i> 2003. <i>J. Biol. Chem.</i> 278:30889.</li><li>3. Meyer-Siegler K &amp; Iczkowski K. 2005. <i>BMC Cancer</i>. 5:73.</li><li>4. Babu SN, <i>et al.</i> 2012. <i>Asian Pac. J. Cancer Prev.</i> 13:1737.</li></ol>
<b>Gene ID</b>	<a href="#">4282</a>

## Related Protocols

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[Active Protocols: Sandwich ELISA - Video](#)

[Sandwich ELISA Protocol](#)

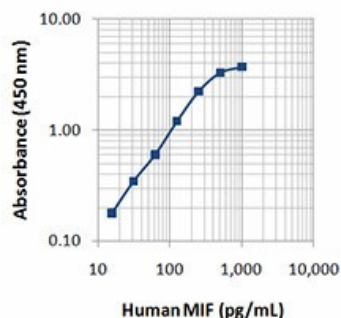
## Other Formats

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Purified anti-human MIF, Biotin anti-human MIF

## Product Data

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587