

Datasheet: MCA3263Z

Description:	MOUSE ANTI HUMAN MIF:Preservative Free
Specificity:	MIF
Format:	Preservative Free
Product Type:	Monoclonal Antibody
Clone:	2A10-4D3
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			0.1 - 10 ug/ml
ELISA			▪	
Western Blotting			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein	IgG concentration 0.5 mg/ml

Concentrations

Immunogen Recombinant protein with a GST tag corresponding to amino acids 1 - 116 of human MIF.

External Database Links

UniProt:

[P14174](#) [Related reagents](#)

Entrez Gene:

[4282](#) MIF [Related reagents](#)

Synonyms GLIF, MMIF

RRID AB_2226469

Fusion Partners Spleen cells from BALB/c mice were fused with cells from the Sp2/0 myeloma cell line.

Specificity

Mouse anti Human MIF antibody, clone 2A10-4D3 recognizes human Macrophage migration inhibitory factor, also known as MIF, glycosylation-inhibiting factor, L-dopachrome isomerase or phenylpyruvate tautomerase. MIF is a 115 amino acid ~12.5 kDa pro-inflammatory cytokine playing a role in the innate immune response to bacterial pathogens. MIF plays a role in the regulation of macrophage function in host defense through the suppression of anti-inflammatory effects of glucocorticoids ([UniProt:14174](#)). MIF 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 ([Kleemann et al. 2000](#)). Mutation of the MIF gene is implicated in susceptibility and severity of early onset rheumatoid arthritis (Llamas-Covarrubias et al. 2013).

Mouse anti Human MIF antibody, clone 2A10-4D3 has been utilized successfully for the micro immunoaffinity isolation of human MIF from human serum for subsequent mass spectrometric immunoassay ([Sherma 2014](#)).

References

1. Sherma, N.D. et al. (2014) Mass Spectrometric Immunoassay for the qualitative and quantitative analysis of the cytokine Macrophage Migration Inhibitory Factor (MIF). [Proteome Sci. 12 \(1\): 52.](#)

Storage

Store at -20°C only.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10162 available at: <https://www.bio-rad-antibodies.com/SDS/MCA3263Z>
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Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M405913:220916'

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