Product datasheet

Anti-MIF antibody ab65869

Product name: Anti-MIF antibody
Description: Rabbit polyclonal to MIF
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Synthetic peptide corresponding to Human MIF (C terminal). A synthetic peptide corresponding to a sequence at the C-terminus of human MIF, different from the related rat and mouse sequences by one amino acid.
Positive control: IHC-P: Rat kidney and liver tissue, mammary cancer tissue lysate. WB: HeLa, Colo320, MM231 cell lysates.

Properties
Form: Lyophilised: 0.2ml of distilled water will yield a concentration of 500µg/ml.
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer: Preservatives: 0.025% Thimerosal (merthiolate), 0.025% Sodium azide
Constituents: 2.5% BSA, 0.45% Sodium chloride, 0.1% Dibasic monohydrogen sodium phosphate
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications
Our Abpromise guarantee covers the use of ab65869 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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**Function**

Pro-inflammatory cytokine. Involved in the innate immune response to bacterial pathogens. The expression of MIF at sites of inflammation suggests a role as mediator in regulating the function of macrophages in host defense. Counteracts the anti-inflammatory activity of glucocorticoids. Has phenylpyruvate tautomerase and dopachrome tautomerase activity (in vitro), but the physiological substrate is not known. It is not clear whether the tautomerase activity has any physiological relevance, and whether it is important for cytokine activity.

**Involvement in disease**

Genetic variations in MIF are associated with susceptibility to rheumatoid arthritis systemic juvenile (RASJ) [MIM:604302]. An inflammatory articular disorder with systemic-onset beginning before the age of 16. It represents a subgroup of juvenile arthritis associated with severe extraarticular features and occasionally fatal complications. During active phases of the disorder, patients display a typical daily spiking fever, an evanescent macular rash, lymphadenopathy, hepatosplenomegaly, serositis, myalgia and arthritis.

**Sequence similarities**

Belongs to the MIF family.

**Cellular localization**

Secreted. Cytoplasm. Does not have a cleavable signal sequence and is secreted via a specialized, non-classical pathway. Secreted by macrophages upon stimulation by bacterial lipopolysaccharide (LPS), or by M.tuberculosis antigens.

**Images**

MIF was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml ab65869 overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex with DAB as the chromogen.
MIF was detected in paraffin-embedded section of rat liver tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml ab65869 overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex with DAB as the chromogen.

This image shows rat kidney tissue stained with ab65869 at 2µg/ml. Cytoplasmic staining of MIF, using DAB.

**All lanes :** Anti-MIF antibody (ab65869)

- **Lane 1 :** HeLa cell lysate
- **Lane 2 :** COLO320 cell lysate
- **Lane 3 :** MM231 cell lysate

**Predicted band size:** 13 kDa
Anti-MIF antibody (ab65869) at 2 µg/ml + mammary cancer tissue lysate

**Predicted band size:** 13 kDa

**Observed band size:** 13 kDa

Secondary antibody - **anti-rabbit HRP (ab6721)**

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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