**Product datasheet**

**Anti-MIF antibody ab65869**

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**Overview**

**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**
Rat kidney tissue, mammary cancer tissue lysate.

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**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

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**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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 13 kDa (predicted molecular weight: 13 kDa).</td>
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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
This image shows rat kidney tissue stained with ab65869 at 2µg/ml. Cytoplasmic staining of MIF, using DAB.
Western blot - Anti-MIF antibody (ab65869)

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)

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

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