Product datasheet

Anti-MIF antibody ab7207

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Overview

Product name: Anti-MIF antibody
Description: Rabbit polyclonal to MIF
Host species: Rabbit
Tested applications: Suitable for: ICC/IF, ELISA, IHC-Fr, WB, IP, IHC-P
Species reactivity: Reacts with: Mouse, Rat
Immunogen: Recombinant full length protein (Rat)(E. coli-expressed).
Positive control: LPS stimulated RAW cell lysate Neuro2A (mouse neuroblastoma cell line) lysate

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: Preservative: 0.1% Sodium azide
Constituent: PBS
Purity: Protein A purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab7207 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>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/250.</td>
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<tr>
<td>ELISA</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use at an assay dependent concentration. PubMed: 19066630</td>
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<tr>
<td>IHC-Fr</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use at an assay dependent concentration.</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

**Western blot - Anti-MIF antibody (ab7207)**

Anti-MIF antibody (ab7207) + LPS stimulated RAW cell lysate

Performed under reducing conditions.

MIF detected by Western Blot in LPS stimulated RAW cell lysate.
ab7207 staining MIF in Mouse small intestine tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with acetone and blocked with Dako protein block for 1 hour at room temperature. Samples were incubated with primary antibody (1/200) for 1 hour. An undiluted Alkaline Phosphatase-conjugated Goat anti-rabbit polyclonal was used as the secondary antibody.

ab7207 staining MIF in Rat liver tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 5% protein blocking solution for 1 hour at room temperature; antigen retrieval was by heat mediation with a citrate EDTA buffer (pH 6.2). Samples were incubated with primary antibody (1/200 in antibody diluent) for 1 hour. An undiluted Alkaline phosphatase-conjugated Goat anti-rabbit polyclonal was used as the secondary antibody.
ab7207 staining MIF in murine immortalised bone marrow-derived macrophages by Immunocytochemistry/Immunofluorescence.

Cells were fixed with formaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 5% serum for 1 hour at 20°C. Samples were incubated with primary antibody (1/250 in 5% goat serum/3% BSA in PBS) for 1 hour at 20°C. An AlexaFluor®488-conjugated goat anti-rabbit polyclonal IgG (1/500) was used as the secondary antibody.

**All lanes**: Anti-MIF antibody (ab7207) at 1/1000 dilution

**Lanes 1-2**: Whole cell lysate prepared from normal rat serum

**Lanes 3-4**: Whole cell lysate prepared from rat serum (90 minutes warm ischemia and 1h reperfusion)

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes**: Goat Anti-Rabbit IgG H&L (HRP) (ab6721) at 1/5000 dilution

Developed using the ECL technique.

**Observed band size**: 13 kDa

why is the actual band size different from the predicted?

**Exposure time**: 2 minutes

From a review by Arsi Rosengren.
ab7207 staining mouse Testis tissue sections by Immunohistochemistry (Frozen sections). Tissue was fixed in paraformaldehyde and blocked in 1% serum for 10 minutes at 20°C. The primary antibody was diluted 1/100 and incubated with sample for 20 hours at 20°C. A biotin labelled goat polyclonal to rabbit IgG antibody, diluted 1/500 was used as the secondary.

ab7207 used at a 1/1000 dilution as detection antibody in ELISA testing MIF in rat serum samples. Samples were blocked with 1% BSA for 2 hours at room temperature. The secondary used was an HRP conjugated donkey anti-goat (H+L) polyclonal used at a 1/200,000 dilution.

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