

**Datasheet for KOA0484****Human MIF ELISA Kit****Overview**

|                      |                                          |
|----------------------|------------------------------------------|
| <b>Description:</b>  | Human MIF AccuSignal ELISA Kit - KOA0484 |
| <b>Item No.:</b>     | KOA0484                                  |
| <b>Size:</b>         | 1 Kit                                    |
| <b>Applications:</b> | ELISA                                    |
| <b>Reactivity:</b>   | Human                                    |
| <b>Range:</b>        | 156 pg/ml - 10000 pg/ml                  |

**Product Details**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Background:</b>         | Macrophage migration inhibitory factor(MIF) is a protein which in humans is encoded by the MIF gene. <sup>1, 2</sup> This gene is located to human chromosome 22q11.2.3 It is remarkably small; it has 3 exons separated by introns of only 189 and 95 bp, and covers less than 1 kb. <sup>4</sup> This gene encodes a lymphokine that may be involved in cell-mediated immunity, immunoregulation, and inflammation. <sup>5</sup> MIF plays a role in the regulation of macrophage function in host defense through the suppression of anti-inflammatory effects of glucocorticoids. This lymphokine and the JAB1 protein might form a complex in the cytosol near the peripheral plasma membrane, which may possibly indicate a role in integrin signaling pathways. MIF also plays a central role in the toxic response to endotoxemia and possibly septic shock. Macrophage migration inhibitory factor has been reported to interact with COP9 constitutive photomorphogenic homolog subunit 5, CD74, BNIPL, and CXCR4. |
| <b>Synonyms:</b>           | GIF, GLIF, Glycosylation inhibiting factor, L dopachrome isomerase, L dopachrome tautomerase, Macrophage migration inhibitory factor, Macrophage migration inhibitory factor (glycosylation inhibiting factor), MMIF, Phenylpyruvate tautomerase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Detection Kit Type:</b> | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Detection Range:</b>    | 156 pg/ml - 10000 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Sensitivity:</b>        | <20 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Target Details**

|                    |       |
|--------------------|-------|
| <b>Gene Name:</b>  | MIF   |
| <b>Reactivity:</b> | Human |

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| <b>Immunogen:</b>          | Expression system for standard: E.coli; Immunogen sequence: P2-A115                                                                                                                                                  |
| <b>Purity/Specificity:</b> | Natural and recombinant human MIF. There is no detectable cross-reactivity with other relevant proteins.                                                                                                             |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - I4AY87</a></li><li>• <a href="#">NCBI - NP_002406.1</a></li><li>• <a href="#">GeneID - 4282</a></li><li>• <a href="#">KOA0484 Protocol</a></li></ul> |

## Application Details

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Tested Applications:</b> | ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Application Note:</b>    | Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human MIF standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum, plasma( heparin, EDTA) or human milk to each empty well. It is recommended that each human MIF standard solution and each sample be measured in duplicate. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

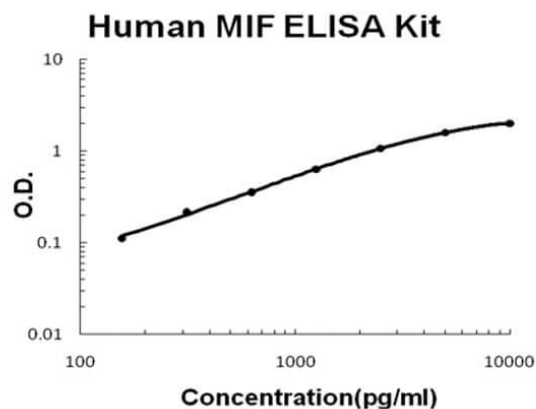
## Formulation

|                       |                |
|-----------------------|----------------|
| <b>Anticoagulant:</b> | Heparin Sodium |
|-----------------------|----------------|

## Shipping & Handling

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| <b>Shipping Condition:</b> | Wet Ice                                                                                                                                                                                                                                                                                                                       |
| <b>Storage Condition:</b>  | Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing. |
| <b>Expiration:</b>         | See kit insert for complete instructions.                                                                                                                                                                                                                                                                                     |

## Images

**ELISA**

Human MIF AccuSignal ELISA Kit standard curve. Assay  
Range: 156pg/ml-10000pg/ml. Sensitivity: <20pg/ml.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.