

**Datasheet for KOA0258****Mouse CCL3 - MIP1 alpha ELISA Kit****Overview**

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|----------------------|------------------------------------------------------|
| <b>Description:</b>  | Mouse CCL3/MIP1 alpha AccuSignal ELISA Kit - KOA0258 |
| <b>Item No.:</b>     | KOA0258                                              |
| <b>Size:</b>         | 1 Kit                                                |
| <b>Applications:</b> | ELISA                                                |
| <b>Reactivity:</b>   | Mouse                                                |
| <b>Range:</b>        | 7.8 pg/ml - 500 pg/ml                                |

**Product Details**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Background:</b>         | Chemokine(C-C motif) ligand 3(CCL3), so known as Macrophage inflammatory protein-1alpha (MIP-1 alpha), is a protein that in humans is encoded by the CCL3 gene. It is a cytokine which belongs to the CC chemokine family that is involved in the acute inflammatory state in the recruitment and activation of polymorphonuclear leukocytes. This gene is mapped to 17q12. CCL3 plays a role in inflammatory responses through binding to the receptors CCR1, CCR4 and CCR5. It has been found that the activation of CCR5 by CCL3 directly and independently activates a G-protein signaling pathway through GNAI2 and a tyrosine phosphorylation signaling pathway through JAK2. |
| <b>Synonyms:</b>           | C C motif chemokine 3, CCL3, CCL3_HUMAN, Chemokine ligand 3, Chemokine ligand 3, G0/G1 switch regulatory protein 19 1, G0/G1 switch regulatory protein 19-1, G0S19 1, Heparin binding chemotaxis protein, LD78-alpha, Macrophage inflammatory protein 1 alpha, Macrophage inflammatory protein 1-alpha, MIP 1 alpha, MIP-1-alpha, MIP-1-alpha, MIP1A, PAT 464.1, SCYA 3, SCYA3, SIS alpha, SIS beta, SIS-beta, Small inducible cytokine A3, Tonsillar lymphocyte LD78 alpha protein                                                                                                                                                                                                 |
| <b>Detection Kit Type:</b> | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Detection Range:</b>    | 7.8 pg/ml - 500 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Sensitivity:</b>        | <10 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Target Details**

|                    |       |
|--------------------|-------|
| <b>Gene Name:</b>  | CCL3  |
| <b>Reactivity:</b> | Mouse |

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| <b>Immunogen:</b>          | Expression system for standard: E.coli; Immunogen sequence: A24-A92                                                                                                                                                   |
| <b>Purity/Specificity:</b> | Natural and recombinant mouse CCL3. There is no detectable cross-reactivity with other relevant proteins.                                                                                                             |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P10855</a></li><li>• <a href="#">NCBI - NP_035467.1</a></li><li>• <a href="#">GenelD - 20302</a></li><li>• <a href="#">KOA0258 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 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.3pg/ml, 15.6pg/ml, 7.8pg/ml mouse CCL3 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 mouse cell culture supernates, serum or plasma(heparin, EDTA, citrate) to each empty well. We recommend that each mouse CCL3 standard solution and each sample is measured in duplicate. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Other:</b>               | DOE:<br>2-8° C - 03/20/2022<br>-20° C - 08/30/2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

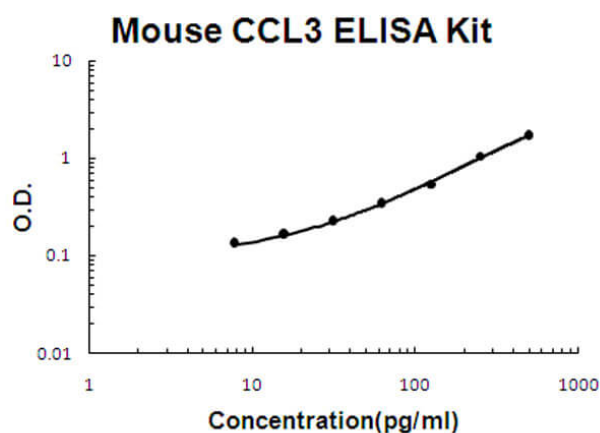
## Formulation

|                       |                |
|-----------------------|----------------|
| <b>Concentration:</b> | 1 Kit          |
| <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

Mouse CCL3/MIP1 alpha AccuSignal ELISA Kit standard curve. Assay Range: 7.8pg/ml-500pg/ml.  
 Sensitivity: <10pg/ml.

## References

- Wang Y et al. Immuno-protective vesicle-crosslinked hydrogel for allogenic transplantation. *Nat Commun.* (2024)
- Nian X et al. Understanding pathogen–host interplay by expression profiles of lncRNA and mRNA in the liver of *Echinococcus multilocularis*-infected mice. *PLoS Negl Trop Dis.* (2022)

## 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.