

**Datasheet for KOA0661****Mouse S100A8 ELISA Kit****Overview**

|                      |                                             |
|----------------------|---------------------------------------------|
| <b>Description:</b>  | Mouse S100A8 AccuSignal ELISA Kit - KOA0661 |
| <b>Item No.:</b>     | KOA0661                                     |
| <b>Size:</b>         | 1 Kit                                       |
| <b>Applications:</b> | ELISA                                       |
| <b>Reactivity:</b>   | Mouse                                       |
| <b>Range:</b>        | 31.2 pg/ml - 2000 pg/ml                     |

**Product Details**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Background:</b>         | S100 calcium-binding protein A8 (S100A8), also known as calgranulin A, is a protein that in humans is encoded by the S100A8 gene. It is mapped to chromosome 1q21.3 based on an alignment of the S100A8 sequence with the genomic sequence. The proteins S100A8 and S100A9 form a heterodimer called calprotectin which is a major calcium- and zinc-binding protein in the cytosol of neutrophils, monocytes, and keratinocytes. This gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. And S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in the inhibition of casein kinase and as a cytokine. Altered expression of this protein is associated with the disease cystic fibrosis. |
| <b>Synonyms:</b>           | 60B8AG, CAGA, Calgranulin-A, Calprotectin L1L subunit, CFAG, CGLA, CP-10, Cystic fibrosis antigen, L1Ag, Leukocyte L1 complex light chain, MA387, MIF, Migration inhibitory factor-related protein 8, MRP 8, MRP-8, MRP8, Myeloid-related protein 8, NIF, p8, Protein S100-A8, S100 calcium binding protein A8, S100 calcium-binding protein A8 (calgranulin A), S100 calcium-binding protein A8, S100A8, S10A8_HUMAN, Urinary stone protein band A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Detection Kit Type:</b> | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Detection Range:</b>    | 31.2 pg/ml - 2000 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Sensitivity:</b>        | <10 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Target Details**

|                   |        |
|-------------------|--------|
| <b>Gene Name:</b> | S100A8 |
|-------------------|--------|

|                            |                                                                                                                                                                                                                       |
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| <b>Reactivity:</b>         | Mouse                                                                                                                                                                                                                 |
| <b>Immunogen:</b>          | Expression system for standard: E.coli; Immunogen sequence: P2-E89                                                                                                                                                    |
| <b>Purity/Specificity:</b> | Natural and recombinant mouse S100A8. There is no detectable cross-reactivity with other relevant proteins.                                                                                                           |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P27005</a></li><li>• <a href="#">NCBI - NP_038678.1</a></li><li>• <a href="#">GeneID - 20201</a></li><li>• <a href="#">KOA0661 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 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml mouse S100A8 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) to each empty well. It is recommended that each mouse S100A8 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ELISA:</b>               | 31.2 pg/ml-2000pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Other:</b>               | DOE:<br>2-8° C - 08/27/2024<br>-20° C - 02/27/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Formulation

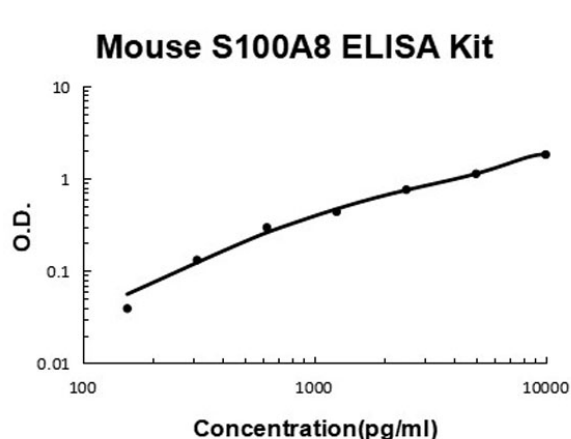
|                       |                |
|-----------------------|----------------|
| <b>Concentration:</b> | 1 Kit          |
| <b>Anticoagulant:</b> | Heparin Sodium |

## Shipping & Handling

|                            |         |
|----------------------------|---------|
| <b>Shipping Condition:</b> | Wet Ice |
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|                           |                                                                                                                                                                                                                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 S100A8 ELISA Kit standard curve.

## References

- Wychrij DA et al. Protective efficacy of the pan-fungal vaccine NXT-2 against vulvovaginal candidiasis in a murine model. *NPJ Vaccines*. (2025)

## 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.