

**Datasheet for KOA0224****Mouse IL-5 ELISA Kit****Overview**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | Mouse IL-5 AccuSignal ELISA Kit - KOA0224 |
| <b>Item No.:</b>     | KOA0224                                   |
| <b>Size:</b>         | 1 Kit                                     |
| <b>Applications:</b> | ELISA                                     |
| <b>Reactivity:</b>   | Mouse                                     |
| <b>Range:</b>        | 15.6 pg/ml - 1000 pg/ml                   |

**Product Details**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Background:</b>         | Interleukin-5(IL-5) is also known as eosinophil differentiation factor(EDF). IL-5 is a potential candidate gene in the pathogenesis of asthma, as it is the main cytokine controlling eosinophil activity and eosinophils are pivotal in the development of airway inflammation. The predicted amino acid sequence of 134 amino acids is identical with that recently reported for human interleukin-5 but shows no significant homology with other known hemopoietic growth regulators. IL-5 is a lineage-specific hematopoietic growth factor that stimulates the production of eosinophils and eosinophil colonies from normal human bone marrow cells. IL-5 gene to human chromosome 5 at bands q23-31. Human and mouse of IL-5 share 70% amino acid sequence homology. |
| <b>Synonyms:</b>           | B cell differentiation factor I, B-cell differentiation factor I, Colony stimulating factor eosinophil, EDF, Eosinophil differentiation factor, IL 5, IL-5, IL5, IL5_HUMAN, Interleukin 5, Interleukin 5 (colony stimulating factor eosinophil), Interleukin-5 Interleukin5, T cell replacing factor, T-cell replacing factor, TRF                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Detection Kit Type:</b> | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Detection Range:</b>    | 15.6 pg/ml - 1000 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Sensitivity:</b>        | <2 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Target Details**

|                    |       |
|--------------------|-------|
| <b>Gene Name:</b>  | IL5   |
| <b>Reactivity:</b> | Mouse |

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| <b>Immunogen:</b>          | Expression system for standard: NSO; Immunogen sequence: M21-G133                                                                                                                                                     |
| <b>Purity/Specificity:</b> | Natural and recombinant mouse IL-5. There is no detectable cross-reactivity with other relevant proteins.                                                                                                             |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P04401</a></li><li>• <a href="#">NCBI - NP_034688.1</a></li><li>• <a href="#">GenelD - 16191</a></li><li>• <a href="#">KOA0224 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 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml, 15.6pg/ml mouse IL-5 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 or serum to each empty well. It is recommended that each mouse IL-5 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

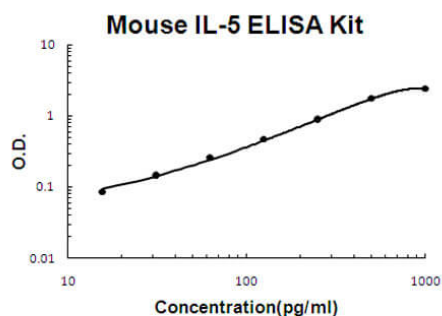
## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 IL-5 AccuSignal ELISA Kit standard curve. Assay  
Range: 15.6pg/ml-1000pg/ml. Sensitivity: <2pg/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.