

**Datasheet for KOA0226****Mouse IL-6 ELISA Kit****Overview**

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|----------------------|-------------------------------------------|
| <b>Description:</b>  | Mouse IL-6 AccuSignal ELISA Kit - KOA0226 |
| <b>Item No.:</b>     | KOA0226                                   |
| <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>         | The human interferon-beta 2 gene(IFNB2) product is identical to that for the B-cell stimulation factor-2(BSF-2), the hybridoma growth factor(HGF)("interleukin-6"), and the hepatocyte stimulating factor(HSF). Proteins derived from this gene mediate the plasma protein response to tissue injury(acute-phase response) and regulate the growth and differentiation of both B and T cells. Interleukin-6(IL6) has come to be regarded as a potential osteoporotic factor because it has stimulatory effects on cells of the osteoclast lineage, and, thus, may play a role in the pathogenesis of bone loss associated with estrogen deficiency. IL-6 has many roles essential to the regulation of the immune response, hematopoiesis, and bone resorption. It is involved not only in the hepatic acute phase response but also in adipose tissue metabolism, lipoprotein lipase activity, and hepatic triglyceride secretion. Overproduction of IL-6, a proinflammatory cytokine, is associated with a spectrum of age-related conditions including cardiovascular disease, osteoporosis, arthritis, type 2 diabetes, certain cancers, periodontal disease, frailty, and functional decline. BSF-2 is a novel interleukin consisting of 184 amino acids. The standard product used in this kit is recombinant IL-6, consisting of 188 amino acids with the molecular mass of 21.8kDa. |
| <b>Synonyms:</b>           | B cell differentiation factor, B cell stimulatory factor 2, B-cell stimulatory factor 2, BSF 2, BSF-2, BSF2, CDF, CTL differentiation factor, Cytotoxic T cell differentiation factor, Hepatocyte stimulating fact, HGF, HPGF, HSF, Hybridoma growth factor, Hybridoma plasmacytoma growth factor, IFN-beta-2, IFNB2, IL 6, IL-6, IL6, IL6 protein, IL6_HUMAN, Interferon beta 2, Interferon beta-2, Interleukin 6, Interleukin 6 (interferon beta 2), Interleukin BSF 2, Interleukin-6, Interleukin6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Detection Kit Type:</b> | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Detection Range:</b>    | 15.6 pg/ml - 1000 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Sensitivity:** <1 pg/ml

## Target Details

|                            |                                                                                                                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>          | IL6                                                                                                                                                                                                                   |
| <b>Reactivity:</b>         | Mouse                                                                                                                                                                                                                 |
| <b>Immunogen:</b>          | Expression system for standard: E.coli; Immunogen sequence: F25-T211                                                                                                                                                  |
| <b>Purity/Specificity:</b> | Natural and recombinant mouse IL-6. There is no detectable cross-reactivity with other relevant proteins.                                                                                                             |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - A2RTD1</a></li><li>• <a href="#">NCBI - NP_112445.1</a></li><li>• <a href="#">GeneID - 16193</a></li><li>• <a href="#">KOA0226 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-6 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. It is recommended that each mouse IL-6 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>               | 15.6 pg/ml-1000 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Other:</b>               | DOE,<br>2-8° C - 12/18/2026<br>-20° C - 06/18/2027                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

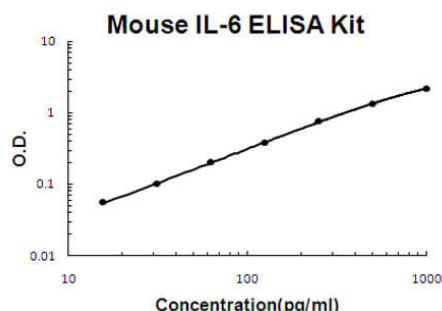
## Formulation

|                       |                |
|-----------------------|----------------|
| <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 IL-6 AccuSignal ELISA Kit standard curve. Assay  
 Range: 15.6pg/ml-1000pg/ml. Sensitivity: <1pg/ml.

## References

- Zhang Q et al. Humanized anti-TLR4 monoclonal antibody ameliorates lipopolysaccharide-related acute kidney injury by inhibiting TLR4/NF- $\kappa$ B signaling. *Mol Med Rep.* (2021)

## 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.