# ARG80503
# Human IL1 beta ELISA Kit

Package: 96 wells
Store at: 4°C

## Summary

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| Product Description | ARG80503 Human IL1 beta ELISA Kit is an Enzyme immunoassay kit for in vitro quantitative measurement of human IL1 beta in serum and plasma (EDTA). |
| Tested Reactivity | Hu |
| Tested Application | ELISA |
| Target Name | IL1 beta |
| Sensitivity | 0.35 pg/ml |
| Sample Type | Serum and plasma (EDTA). |
| Standard Range | 24 - 1166 pg/ml |
| Sample Volume | 200 µl |
| Alternate Names | Interleukin-1 beta; IL1-BETA; IL-1; IL-1 beta; Catabolin; IL1F2 |

## Application Instructions

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| Assay Time | 2 h, 15 min (RT/shaker) |

## Properties

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| Form | 96 well |
| Storage instruction | Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

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| Gene Symbol | IL1B |
| Gene Full Name | interleukin 1, beta |
| Background | IL1 beta protein is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. [provided by RefSeq, Jul 2008] |
| Function | IL1 beta is a potent proinflammatory cytokine. Initially discovered as the major endogenous pyrogen, induces prostaglandin synthesis, neutrophil influx and activation, T-cell activation and cytokine production, B-cell activation and antibody production, and fibroblast proliferation and collagen production. Promotes Th17 differentiation of T-cells. Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells (PubMed:10653850). [UniProt] |

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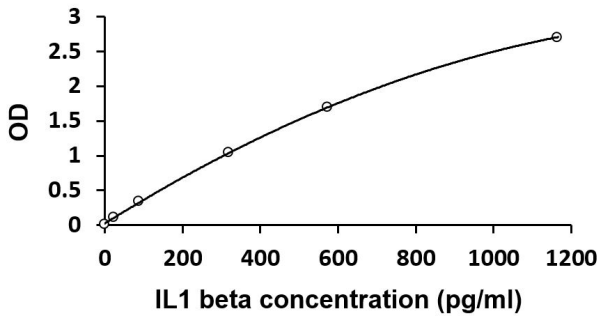
| Highlight | Related products:<br>IL1 beta antibodies; IL1 beta ELISA Kits; IL1 beta Duos / Panels; IL1 beta recombinant proteins;<br>Related news:<br>HMGB1 in inflammation<br>Inflammatory Cytokines<br>Exploring Antiviral Immune Response<br>RIP1 activation and pathogenesis of NASH<br>New ELISA data calculation tool:<br>Simplify the ELISA analysis by GainData |
| Research Area | Cell Biology and Cellular Response kit; Immune System kit; Metabolism kit |
| PTM | Activation of the IL1B precursor involves a CASP1-catalyzed proteolytic cleavage. Processing and secretion are temporarily associated. |

## Images




ARG80503 Human IL1 beta ELISA Kit standard curve image

ARG80503 Human IL1 beta ELISA Kit results of a typical standard.