

ARG82815 Monkey IL1 beta ELISA Kit

Package: 96 wells

Store at: 4°C

Summary

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| Product Description | ARG82815 Monkey IL1 beta ELISA Kit is an Enzyme Immunoassay kit for the quantification of Monkey IL1 beta in serum, plasma and cell culture supernatants. |
| Tested Reactivity | Mk |
| Tested Application | ELISA |
| Specificity | Cross-Reactivity: Not react with ApoAI, BMP1, BMP2, BMP3, BMP4, BMP5, BMP7, CRP, HGF, HSP27, IL1RA, IL1 alpha, IL1RI, IL2, IL4, IL5, IL6, IL6R, IL8, IL10, IL12, IL13, IL15, IL17C, IL21, IL23, IFN gamma, PDGF, PLA2G7, prolactin, TGF beta 1, TGF beta 2, TGF beta 3, TLR1, TLR2, TL3, TNF alpha, TNF RI, TNF RII and VEGF. |
| Target Name | IL1 beta |
| Conjugation Note | Read at 450 nm. |
| Sensitivity | 16 pg/ml |
| Sample Type | Serum, plasma and cell culture supernatants. |
| Standard Range | 31 - 2000 pg/ml |
| Sample Volume | 100 µl |
| Precision | Intra-Assay CV: 6.0% Inter-Assay CV: 11.0% |
| Alternate Names | Interleukin-1 beta; IL1-BETA; IL-1; IL-1 beta; Catabolin; IL1F2 |

Application Instructions

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| Assay Time | ~ 5 hours |
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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. |

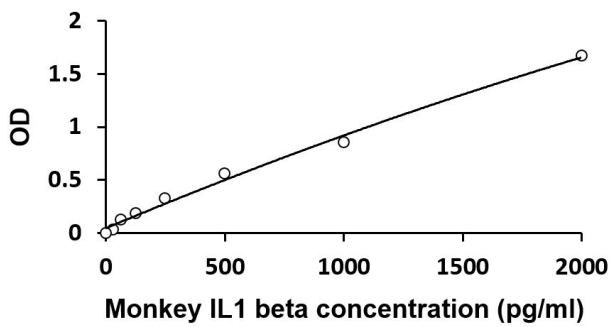
Bioinformation

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| Gene Symbol | IL1B |
| Gene Full Name | interleukin 1, beta |
| Background | The protein encoded by this gene 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]

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| Function | 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] |
| PTM | Activation of the IL1B precursor involves a CASP1-catalyzed proteolytic cleavage. Processing and secretion are temporarily associated. [UniProt] |
| Cellular Localization | Cytoplasm, cytosol. Lysosome. Secreted, exosome. Secreted. Note=The precursor is cytosolic. [UniProt] |

Images



ARG82815 Monkey IL1 beta ELISA Kit standard curve image

ARG82815 Monkey IL1 beta ELISA Kit results of a typical standard run with optical density reading at 450 nm.