# ARG83576

# arigoQIK® Human IL6 ELISA Development Kit

Package: 1 kit(5 plates), 1 kit (15 plates)
Store at: 4°C

## Summary

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| Product Description | ARG83576 arigoQIK® Human IL6 ELISA Development Kit, includes Capture antibody, Detection antibody, Standard, and HRP-Streptavidin Solution.<br>This ELISA Development Kit is designed for the development of sandwich ELISA to measure Human IL6 in Serum, plasma and cell culture supernatants.<br><br>For other reagents required for arigoQIK® ELISA Development Kit, please refer ARG83524 Integral Reagent Kit (ELISA Development Kit)<br><br>More aboutarigoQIK® :<br>● Optimized capture and detection antibody pairs<br>● Reduced incubation time and wash cycles<br>● 2-hour quicker than conventional ELISA process<br>● 5- and 15-plate packages available |
| Tested Reactivity | Hu |
| Tested Application | ELISA |
| Target Name | IL6 |
| Conjugation | HRP |
| Conjugation Note | Substrate: TMB and read at 450 nm. |
| Sensitivity | 7.8 pg/ml |
| Sample Type | Serum, plasma and cell culture supernatants. |
| Standard Range | 15.6 - 1000 pg/ml |
| Sample Volume | 50 µl |
| Alternate Names | IL6; Interleukin 6; IL-6; IFNB2; BSF2; HGF; HSF; B-Cell Stimulatory Factor 2; CTL Differentiation Factor; Hybridoma Growth Factor; Interferon Beta-2; Interleukin-6; IFN-Beta-2; BSF-2; CDF; Interleukin 6 (Interferon, Beta 2); B-Cell Differentiation Factor; Interferon, Beta 2; Interleukin BSF-2 |

## Properties

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| Form | 96 well |
| Storage instruction | Store components at 4°C. 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 | IL6 |
| Gene Full Name | Interleukin 6 |
| Background | This gene encodes a cytokine that functions in inflammation and the maturation of B cells. In addition, the encoded protein has been shown to be an endogenous pyrogen capable of inducing fever in people with autoimmune diseases or infections. The protein is primarily produced at sites of acute and chronic |

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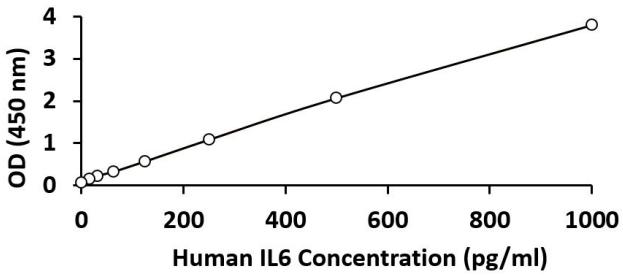
| | inflammation, where it is secreted into the serum and induces a transcriptional inflammatory response through interleukin 6 receptor, alpha. The functioning of this gene is implicated in a wide variety of inflammation-associated disease states, including suspectibility to diabetes mellitus and systemic juvenile rheumatoid arthritis. Elevated levels of the encoded protein have been found in virus infections, including COVID-19 (disease caused by SARS-CoV-2). [provided by RefSeq, Aug 2020] |
| Function | IL6 is a potent inducer of the acute phase response. Rapid production of IL6 contributes to host defense during infection and tissue injury, but excessive IL6 synthesis is involved in disease pathology. In the innate immune response, is synthesized by myeloid cells, such as macrophages and dendritic cells, upon recognition of pathogens through toll-like receptors (TLRs) at the site of infection or tissue injury (Probable). In the adaptive immune response, is required for the differentiation of B cells into immunoglobulin-secreting cells. Plays a major role in the differentiation of CD4+ T cell subsets. Essential factor for the development of T follicular helper (Tfh) cells that are required for the induction of germinal-center formation. Required to drive naive CD4+ T cells to the Th17 lineage. Also required for proliferation of myeloma cells and the survival of plasmablast cells.<br><br>Through activation of IL6ST-YAP-NOTCH pathway, induces inflammation-induced epithelial regeneration. [UniProt] |
| PTM | Disulfide bond, Glycoprotein, Phosphoprotein. [UniProt] |
| Cellular Localization | Secreted. [UniProt] |

## Images




ARG83576 arigoQIK Human IL6 ELISA Development Kit standard curve image

ARG83576 arigoQIK Human IL6 ELISA Development Kit results of a typical standard run with optical density reading at 450 nm.