

ARG83576

arigoQIK™ Human IL6 ELISA Development Kit

Package: 1 kit(5 plates), 1 kit
(15 plates)
Store at: 4°C, -20°C

Summary

Product Description

ARG83576 arigoQIK™ Human IL6 ELISA Development Kit, includes Capture antibody, Detection antibody, Standard, and HRP-Streptavidin Solution. This ELISA Development Kit is designed for the development of sandwich ELISA to measure Human IL6 in Serum, plasma and cell culture supernatants.

For other reagents required for [arigoQIK™ ELISA Development Kit](#), please refer [ARG83524 Integral Reagent Kit \(ELISA Development Kit\)](#)

[More about arigoQIK™:](#)

- Optimized capture and detection antibody pairs
- Reduced incubation time and wash cycles
- 2-hour quicker than conventional ELISA process
- 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

Form

96 well

Storage instruction

Store components at 4°C or -20°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

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

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 susceptibility 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.

Through activation of IL6ST-YAP-NOTCH pathway, induces inflammation-induced epithelial regeneration. [UniProt]

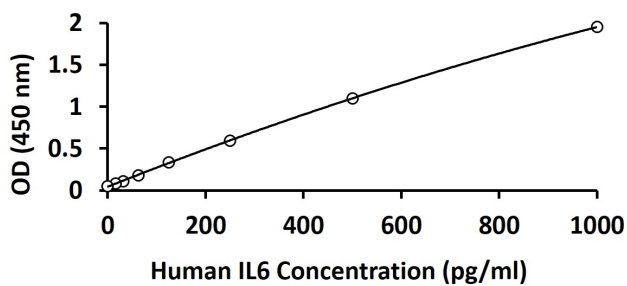
PTM

Disulfide bond, Glycoprotein, Phosphoprotein. [UniProt]

Cellular Localization

Secreted. [UniProt]

Images



ARG83575 arigoQIK Human IL4 ELISA Development Kit standard curve image

ARG83575 arigoQIK Human IL4 ELISA Development Kit results of a typical standard run with optical density reading at 450 nm.