

ARG83732

arigoQIK® Rat IL6 ELISA Development Kit

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

Summary

Product Description

ARG83732 arigoQIK® Rat 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 Rat 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

Rat

Tested Application

ELISA

Target Name

IL6

Conjugation

HRP

Conjugation Note

Substrate: TMB and read at 450 nm.

Sensitivity

31.25 pg/mL

Sample Type

Serum, plasma and cell culture supernatants.

Standard Range

62.5-4000 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

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

Cytokine with a wide variety of biological functions in immunity, tissue regeneration, and metabolism. Binds to IL6R, then the complex associates to the signaling subunit IL6ST/gp130 to trigger the intracellular IL6-signaling pathway (Probable). The interaction with the membrane-bound IL6R and IL6ST stimulates 'classic signaling', whereas the binding of IL6 and soluble IL6R to IL6ST stimulates 'trans-signaling'. Alternatively, 'cluster signaling' occurs when membrane-bound IL6:IL6R complexes on transmitter cells activate IL6ST receptors on neighboring receiver cells. Through activation of IL6ST-YAP-NOTCH pathway, induces inflammation-induced epithelial regeneration. [Uniprot]