

Product datasheet

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ARG88010 Package: 1 kit(5 plates), 1 kit

(15 plates)

Store at: 4°C, -20°C

arigoQIKTM Rat IL1 beta ELISA Development Kit

Summary

Product Description ARG88010 arigoQIK[™] Rat IL1 beta 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 IL1 beta

in serum, plasma and cell culture supernatants.

For other reagents required for <u>arigoQIKTM ELISA Development Kit</u>, please refer <u>ARG83524 Integral</u>

Reagent Kit (ELISA Development Kit)

More about arigoQIK TM:

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 IL1 beta

Conjugation HRP

Conjugation Note Substrate: TMB and read at 450 nm.

Sensitivity 7.81 pg/ml

Sample Type Serum, plasma and cell culture supernatants.

Standard Range 15.63 - 1000pg/ml

Sample Volume $50 \mu l$

Alternate Names IL1B; Interleukin 1 Beta; IL1F2 2; IL1-BETA; Interleukin-1 Beta; IL-1 Beta; Catabolin; IL-1B; Pro-

Interleukin-1-Beta; Preinterleukin 1 Beta; Interleukin 1beta; IL1beta; IL-1

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 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. Similarly, IL-1B has been

implicated in human osteoarthritis pathogenesis. Patients with severe Coronavirus Disease 2019 (COVID-19) present elevated levels of pro-inflammatory cytokines such as IL-1B in bronchial alveolar lavage fluid samples. The lung damage induced by the Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is to a large extent, a result of the inflammatory response promoted by cytokines such as IL-1B. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. [provided by RefSeq, Jul 2020]

Function Acts as a sensor of S.pyogenes infection in skin: cleaved and activated by pyogenes SpeB protease,

leading to an inflammatory response that prevents bacterial growth during invasive skin infection.

[Uniprot]

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Cellular Localization Cytoplasm, Lysosome, Secreted. [Uniprot]