

ARG83546

arigoQIK™ Mouse IL9 ELISA Development Kit

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

Summary

Product Description

ARG83546 arigoQIK™ Mouse IL9 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 Mouse IL9 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

Ms

Tested Application

ELISA

Target Name

IL9

Conjugation

HRP

Conjugation Note

Substrate: TMB and read at 450 nm.

Sensitivity

3.91 pg/ml

Sample Type

Serum, plasma and cell culture supernatants.

Standard Range

7.81 - 500pg/ml

Sample Volume

50 µl

Alternate Names

IL9; Interleukin 9; IL-9; T-Cell Growth Factor P40 HP40; P40; Homolog Of Mouse T Cell And Mast Cell Growth Factor 40; P40 T-Cell And Mast Cell Growth Factor; Interleukin-9; P40 Cytokine; Cytokine P40

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

IL9

Gene Full Name

Interleukin 9

Background

The protein encoded by this gene is a cytokine that acts as a regulator of a variety of hematopoietic cells. This cytokine stimulates cell proliferation and prevents apoptosis. It functions through the interleukin 9 receptor (IL9R), which activates different signal transducer and activator (STAT) proteins and thus connects this cytokine to various biological processes. The gene encoding this cytokine has been identified as a candidate gene for asthma. Genetic studies on a mouse model of asthma demonstrated that this cytokine is a determining factor in the pathogenesis of bronchial

hyperresponsiveness. [provided by RefSeq, Jul 2008]

Function

In addition, induces the differentiation of specific T-cell subsets such as IL-17 producing helper T-cells (TH17) and also proliferation and differentiation of mast cells. Mechanistically, exerts its biological effects through a receptor composed of IL9R subunit and a signal transducing subunit IL2RG. Receptor stimulation results in the rapid activation of JAK1 and JAK3 kinase activities leading to STAT1, STAT3 and STAT5-mediated transcriptional programs. Induction of differentiation genes seems to be mediated by STAT1 alone, while protection of cells from apoptosis depends on STAT3 and STAT. [UniProt]

Highlight

Related news:
[arigoQIK, DIY your sandwich ELISA kits;](#)

PTM

Glycoprotein, Pyrrolidone carboxylic acid. [UniProt]

Cellular Localization

Secreted. [UniProt]