

ARG83575

Summary

arigoQIK[®] Human IL4 ELISA Development Kit

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

Product Description ARG83575 arigoQIK[®] Human IL4 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 IL4 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 aboutarigoQIK⁻: • 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 IL4 Conjugation HRP **Conjugation Note** Substrate: TMB and read at 450 nm. Sensitivity 3.9 pg/ml Sample Type Serum, plasma and cell culture supernatants. Standard Range 7.8 - 500 pg/ml Sample Volume 50 µl **Alternate Names** IL4; Interleukin 4; IL-4; Lymphocyte Stimulatory Factor 1; BCGF-1; BCGF1; BSF1; B_cell Stimulatory Factor 1; B Cell Growth Factor 1; Interleukin-4; Binetrakin; Pitrakinra; MGC79402; BSF-1; B-Cell Stimulatory Factor 1

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	IL4
Gene Full Name	Interleukin 4
Background	The protein encoded by this gene is a pleiotropic cytokine produced by activated T cells. This cytokine is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of

transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. This gene, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. IL4 is considered an important cytokine for tissue repair, counterbalancing the effects of proinflammatory type 1 cytokines, however, it also promotes allergic airway inflammation. Moreover, IL-4, a type 2 cytokine, mediates and regulates a variety of human host responses such as allergic, anti-parasitic, wound healing, and acute inflammation. This cytokine has been reported to promote resolution of neutrophil-mediated acute lung injury. In an allergic response, IL-4 has an essential role in the production of allergen-specific immunoglobin (Ig) E. This pro-inflammatory cytokine has been observed to be increased in COVID-19 (Coronavirus disease 2019) patients, but is not necessarily associated with severe COVID-19 pathology. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Aug 2020] Engagement of both types of receptors initiates JAK3 and to a lower extend JAK1 phosphorylation Function leading to activation of the signal transducer and activator of transcription 6/STAT6. [UniProt] PTM Disulfide bond, Glycoprotein. [UniProt] **Cellular Localization** Secreted. [UniProt]

Images

