



Human Interleukin 1 α , IL-1 α ELISA Kit

Product Code	CSB-E04620h
Abbreviation	IL1A
Protein Biological Process 1	Immunity
Uniprot No.	P01583
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates, cell culture supernates.
Detection Range	3.9 pg/ml-250 pg/ml.
Sensitivity	0.975 pg/ml.
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	IL1A
Tag Info	quantitative
Protein Description	Sandwich

Description

This human IL1A ELISA kit employs the quantitative sandwich enzyme immunoassay technique to measure the levels of human IL1A in multiple samples, including serum, plasma, cell culture supernates, tissue homogenates, or cell lysates. The enzyme-substrate chromogenic reaction is also used to amplify the signal and quantify the levels of the analyte through the intensity of the colored product. The color intensity positively correlates with the amount of IL1A bound in the initial step.

IL1A is constitutively expressed in epithelial, endothelial, and stromal cells and can be upregulated in hematopoietic and non-hematopoietic cells by diverse stimuli, including TLR agonists, inflammatory cytokines, and oxidative stress. In non-hematopoietic cells, IL1A signals via IL1R on myeloid cells in a MyD88/RIPK1/(TAK1)-dependent manner to induce the expression of pro-inflammatory cytokines. IL1A also plays a role in neutrophil recruitment and host defense after infections caused by viral, fungal, or protozoan. Dysregulation of IL1A production is associated with numerous auto-inflammatory disorders.

Product Precision



Linearity

Recovery

Typical