



# Mouse Interleukin 1 $\alpha$ , IL-1 $\alpha$ ELISA kit

<b>Product Code</b>	CSB-E04621m
<b>Abbreviation</b>	IL1A
<b>Protein Biological Process 1</b>	Immunity
<b>Target Name</b>	interleukin 1, alpha
<b>Uniprot No.</b>	P01582
<b>Alias</b>	IL-1A, IL1, IL1-ALPHA, IL1F1, IL1A (IL1F1) OTTHUMP00000203692 hematopoietin-1 preinterleukin 1 alpha pro-interleukin-1-alpha
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Protein Biological Process 3</b>	Inflammatory response
<b>Sample Types</b>	serum, plasma, tissue homogenates
<b>Detection Range</b>	2.35 pg/ml - 150 pg/ml
<b>Sensitivity</b>	0.58 pg/ml
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Immunology
<b>Quality Control</b>	<p>A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm.</p> <p>An incubator can provide stable incubation conditions up to 37°C<math>\pm</math>5°C.</p> <p>Centrifuge</p> <p>Vortex</p> <p>Squirt bottle, manifold dispenser, or automated microplate washer</p> <p>Absorbent paper for blotting the microtiter plate</p> <p>50-300ul multi-channel micropipette</p> <p>Pipette tips</p> <p>Single-channel micropipette with different ranges</p> <p>100ml and 500ml graduated cylinders</p> <p>Deionized or distilled water</p> <p>Timer</p> <p>Test tubes for dilution</p>
<b>Gene Names</b>	Il1a



<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Component</b>	<p>A micro ELISA plate ---The 96-well plate has been pre-coated with an anti-mouse IL-1<math>\alpha</math> antibody. This dismountable microplate can be divided into 12 x 8 strip plates.</p> <p>Two vials lyophilized standard ---Dilute a bottle of the standard at dilution series, read the OD values, and then draw a standard curve.</p> <p>One vial Biotin-labeled IL-1<math>\alpha</math> antibody (100 x concentrate) (120 <math>\mu</math>l/bottle) ---Act as the detection antibody.</p> <p>One vial HRP-avidin (100 x concentrate) (120 <math>\mu</math>l/bottle) ---Bind to the detection antibody and react with the TMB substrate to make the solution chromogenic.</p> <p>One vial Biotin-antibody Diluent (15 ml/bottle) ---Dilute the Biotin-antibody.</p> <p>One vial HRP-avidin Diluent (15 ml/bottle) ---Dilute the HRP-avidin solution.</p> <p>One vial Sample Diluent (50 ml/bottle)---Dilute the sample to an appropriate concentration.</p> <p>One vial Wash Buffer (25 x concentrate) (20 ml/bottle) ---Wash away unbound or free substances.</p> <p>One vial TMB Substrate (10 ml/bottle) ---Act as the chromogenic agent. TMB interacts with HRP, eliciting the solution turns blue.</p> <p>One vial Stop Solution (10 ml/bottle) ---Stop the color reaction. The solution color immediately turns from blue to yellow.</p> <p>Four Adhesive Strips (For 96 wells) --- Cover the microplate when incubation.</p> <p>An instruction manual</p>
<b>Description</b>	<p>This Mouse IL1A ELISA Kit was designed for the quantitative measurement of Mouse IL1A protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 2.35 pg/ml - 150 pg/ml and the sensitivity is 0.58 pg/ml.</p>
<b>Target Details</b>	<p>This protein is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer s disease.</p>
<b>Product Precision</b>	
<b>Linearity</b>	
<b>Recovery</b>	
<b>Typical</b>	
<b>Msds</b>	<pre>{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E04621m.pdf","filename":"MSDS"}}</pre>