# ANTIBODIES ONLINE

# Datasheet for ABIN1112646 **IL-3 ELISA Kit**



Overview

Quantity:	96 tests
Target:	IL-3
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

#### Product Details

Purpose:	For quantitative detection of IL-3 in human serum, body fluids, tissue lysate or cell culture
	supernate.
	Superiore.
Sample Type:	Cell Culture Supernatant, Serum, Tissue Lysate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	
	< 1 pg/mL
Components:	1. One 96-well plate pre-coated with anti-Human IL-3 antibody 2. Lyophilized Human IL-3
	standarda: 2 tubas (10ng / tuba) 2. Sampla / Standard diluant huffar: 20ml 4. Piatin appiugator
	standards: 2 tubes (10ng / tube) 3. Sample / Standard diluent buffer: 30ml 4. Biotin conjugated
	anti-Human IL-3 antibody (Concentrated): 130 µl.
Material not included:	1. 37 °C incubator 2. Microplate reader (wavelength: 450nm) 3. Precise pipette and disposable
	1. 57 C Incubator 2. Microplate reader (wavelength. 4301111) 5. Precise pipette and disposable
	pipette tips 4. Automated plate washer 5. ELISA shaker 6. 1.5ml of Eppendorf tubes 7. Plate
	cover 8. Absorbent filter papers 9. Plastic or glass container with volume of above 1L

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## Target Details

Target:	IL-3
Alternative Name:	IL-3 (IL-3 Products)
Background:	Interleukin 3 (IL-3) is a hematopoietic colony-stimulating factor that is capable of supporting the proliferation of a broad range of hematopoietic cell types. It is chemically synthesized by means of an automated peptide synthesizer and is shown to have the biological activities attributed to native IL-3. It is secreted by basophils and activated T cells to support growth and differentiation of T cells from the bone marrow in an immune response. It can improve the body's natural response to disease as part of the immune system. It acts by binding to the interleukin-3 receptor. IL3 infusion expands an early cell population that subsequently requires the action of a later-acting factor such as GMCSF to complete its development.
Pathways:	JAK-STAT Signaling, Regulation of Carbohydrate Metabolic Process, Autophagy
Application Details	
Comment:	<ul> <li>This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-IL-3</li> <li>polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-IL-3</li> <li>polyclonal antibody was used as detection antibodies. The standards test samples and biotin</li> <li>conjugated detection antibody were added - the wells subsequently and wash with wash buffer.</li> <li>Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with</li> <li>wash buffer. TMB substrates were used - visualize HRP enzymatic reaction. TMB was</li> <li>catalyzed by HRP - produce a blue color product that changed into yellow after adding acidic</li> <li>stop solution. The density of yellow is proportional - the IL-3 amount of sample captured in</li> <li>plate. Read the O.D. absorbance at 450 nm in a microplate reader and then the concentration of</li> <li>IL-3 can be calculated.</li> </ul>
Plate:	Pre-coated
Reagent Preparation:	1. Before the experiment, centrifuge each kit component for several minutes to bring down all reagents to the bottom of tubes. 2. It is recommend to measure each standard and sample in duplicate. 3. Do NOT let the plate completely dry at any time! Since the dry condition can inactivate the biological material on the plate. 4. Do not reuse pipette tips and tubes to avoid cross contamination. 5. Do not use the expired components and the components from different batches. 6. To avoid the marginal effect of plate incubation for temperature differences (the marginal wells always get stronger reaction), it is recommend to equilibrate the ABC working solution and TMB substrate for at least 30 min at room temperature (37°C ) before adding to

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## Application Details

	please contact us for replacement.
Sample Preparation:	Preparation of sample and reagents 1. Sample Isolate the test samples soon after collecting,
	then, analyze immediately (within 2 hours). Or aliquot and store at -20 $^\circ C$ for long term. Avoid
	multiple freeze-thaw cycles.
	Body fluids, tissue lysate or cell culture supernate: Centrifuge to remove precipitate, analyze
	immediately or aliquot and store at -20 °C.
	Serum: Coagulate the serum at room temperature (about 4 hours). Centrifuge at approximately
	1000 × g for 15 min. Analyze the serum immediately or aliquot and store at -20 °C . Note: 1.
	Coagulate blood samples completely, then, centrifuge, and avoid hemolysis and particle. 2.
	NaN3 can not be used as test sample preservative, since it is the inhibitor for HRP.
Restrictions:	For Research Use only
Handling	

Preservative:

Sodium azide, Thimerosal (Merthiolate)