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Datasheet for ABIN1112691

Thrombopoietin ELISA Kit



Overview

Quantity:	96 tests
Target:	Thrombopoietin (THPO)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA
Product Details	
Purpose:	For quantitative detection of TPO in mouse serum, body fluids, tissue lysates or cell culture supernatants.
Sample Type:	Cell Culture Supernatant, Serum, Tissue Lysate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	< 5 pg/mL
Components:	1. One 96-well plate pre-coated with anti-Mouse TPO antibody 2. Lyophilized Mouse TPO standards: 2 tubes (10ng / tube) 3. Sample / Standard diluent buffer: 30ml 4. Biotin conjugated anti-Mouse TPO antibody (Concentrated): 130 µl.
Material not included:	1. 37 °C incubator 2. Microplate reader (wavelength: 450nm) 3. 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:	Thrombopoietin (THPO)
Alternative Name:	Thrombopoietin / TPO (THPO Products)
Background:	Thrombopoietin (THPO) also known as megakaryocyte growth and development factor (MGDF)
	is a protein that in humans is encoded by the THPO gene. The gene is 6.2 kb long and contains
	6 exons and 5 introns, and maps to 3q27. THPO was expressed from both promoters in
	HEK293T human embryonic kidney cells and in HepG2 adult liver cells. The protein encoded by
	this gene is a humoral growth factor that is necessary for megakaryocyte proliferation and
	maturation, as well as for thrombopoiesis. This protein is the ligand for MLP/C_MPL, the
	product of myeloproliferative leukemia virus oncogene.
Pathways:	JAK-STAT Signaling, Hormone Activity
Application Details	
Comment:	This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-TPO
	polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-TPO
	polyclonal antibody was used as detection antibodies. The standards test samples and biotin
	conjugated detection antibody were added - the wells subsequently and wash with wash buffer.
	Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with
	wash buffer. TMB substrates were used - visualize HRP enzymatic reaction. TMB was
	catalyzed by HRP - produce a blue color product that changed into yellow after adding acidic
	stop solution. The density of yellow is proportional - the TPO amount of sample captured in
	plate. Read the O.D. absorbance at 450 nm in a microplate reader and then the concentration of
	TPO can be calculated.

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 wells. The TMB substrate (Kit Component 8) is colorless and transparent before use, if not, please contact us for replacement.

Application Details

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 °C for long term. Avoid multiple freeze-thaw cycles.

Body fluids, tissue lysates and cell culture supernatants: Centrifuge to remove precipitate, analyze immediately or aliquot and store at -20 $^{\circ}$ C .

Serum: Coagulate the serum at room temperature (about 4 hours). Centrifuge at approximately 2000 × g for 20 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)