



Human Thrombopoietin, TPO ELISA kit

Product Code	CSB-E04745h
Abbreviation	THPO
Target Name	thrombopoietin
Uniprot No.	P40225
Alias	MGC163194, MGDF, MKCSF, ML, MPLLG, TPO, MPL ligand c-mpl ligand megakaryocyte colony-stimulating factor megakaryocyte growth and development factor megakaryocyte stimulating factor myeloproliferativ
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma
Detection Range	6.25 pg/mL-400 pg/mL
Sensitivity	1.56 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	Cardiovascular
Gene Names	THPO
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human THPO ELISA Kit was designed for the quantitative measurement of Human THPO protein in serum, plasma. It is a Sandwich ELISA kit, its detection range is 6.25 pg/mL-400 pg/mL and the sensitivity is 1.56 pg/mL.

Target Details

Megakaryocytopoiesis is the cellular development process that leads to platelet production. This protein 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.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%
 Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%
 Three samples of known concentration were tested in twenty assays to assess.



Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human TPO in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

Sample	Serum(n=4)
1:1	Average % 96
	Range % 90-101
1:2	Average % 97
	Range % 91-102
1:4	Average % 95
	Range % 90-100
1:8	Average % 94
	Range % 89-99

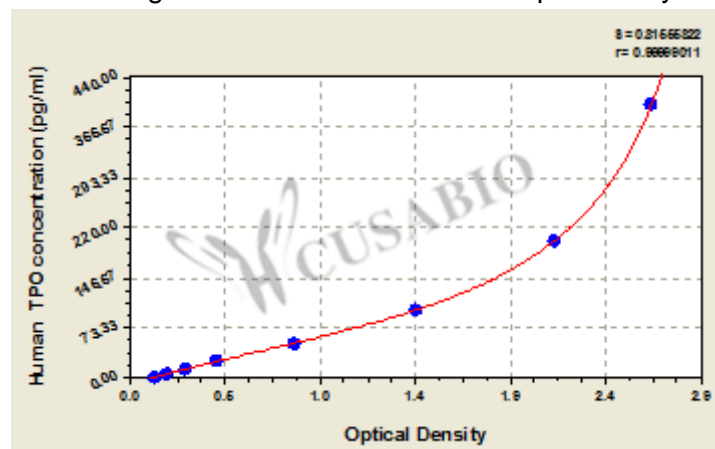
Recovery

The recovery of human TPO spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	97	92-102
EDTA plasma (n=4)	88	82-93

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
400	2.664	2.572	2.618	2.483
200	2.085	2.178	2.132	1.997
100	1.489	1.394	1.442	1.307
50	0.822	0.842	0.832	0.697
25	0.433	0.457	0.445	0.310
12.5	0.293	0.284	0.289	0.154
6.25	0.196	0.198	0.197	0.062
0	0.134	0.135	0.135	

Msds

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