

ARG81673 Mouse Tpo / Thrombopoietin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81673-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81673-002	Standard	2 X 10 ng/vial	4°C
ARG81673-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81673-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81673-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81673-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81673-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81673-008	25X Wash buffer	20 ml	4°C
ARG81673-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81673-010	STOP solution	10 ml (Ready to use)	4°C
ARG81673-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81673 Mouse Tpo / Thrombopoietin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse Tpo / Thrombopoietin in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Tpo / Thrombopoietin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.5%; Inter-Assay CV: 7.4%
Alternate Names	C-mpl ligand; Thrombopoietin; MPLLG; TPO; ML; Megakaryocyte colony-stimulating factor; Megakaryocyte growth and development factor; MGDF; Myeloproliferative leukemia virus oncogene ligand; MKCSF; THCYT1

Application Instructions

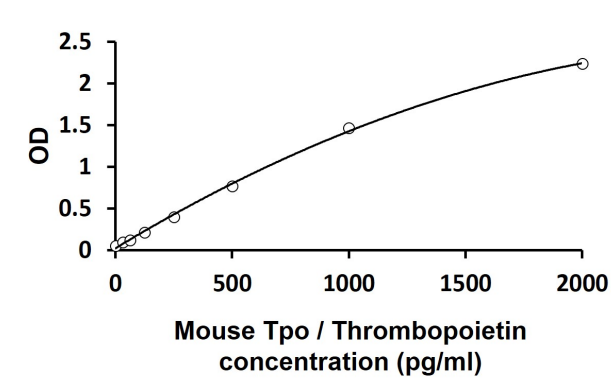
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	THPO
Gene Full Name	thrombopoietin
Background	Megakaryocytopoiesis is the cellular development process that leads to platelet production. The main functional 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. Mutations in this gene are the cause of thrombocythemia 1. Alternative promoter usage and differential splicing result in multiple transcript variants differing in the 5' UTR and/or coding region. Multiple AUG codons upstream of the main open reading frame (ORF) have been identified, and these upstream AUGs inhibit translation of the main ORF at different extent. [provided by RefSeq, Feb 2014]
Function	Lineage-specific cytokine affecting the proliferation and maturation of megakaryocytes from their committed progenitor cells. It acts at a late stage of megakaryocyte development. It may be the major physiological regulator of circulating platelets. [UniProt]
Highlight	Related products: Thrombopoietin antibodies ; Thrombopoietin ELISA Kits ; Thrombopoietin recombinant proteins ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData



ARG81673 Mouse Tpo / Thrombopoietin ELISA Kit standard curve image

ARG81673 Mouse Tpo / Thrombopoietin ELISA Kit results of a typical standard run with optical density reading at 450 nm.