

Rat thrombopoietin ELISA Kit | THPO elisa kit

Rat Thrombopoietin, TPO ELISA Kit

CATALOG #
AAA80048

REACTIVITY
Rat

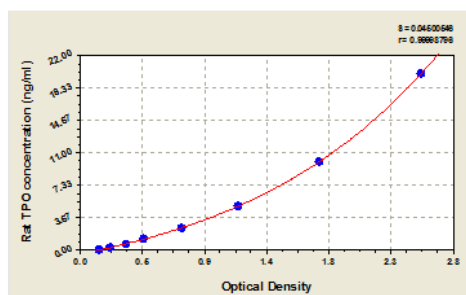
PRODUCT SYNONYMS

thrombopoietin; Rat Thrombopoietin; TPO ELISA Kit; TPO ELISA kit; MGC163194; MGDF; MKCSF; ML; MPLLG; TPO; MPL ligand; c-mpl ligand; megakaryocyte colony-stimulating factor; megakaryocyte growth and development factor; megakaryocyte stimulating factor; myeloproliferativ; THPO elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat THPO. No significant cross-reactivity or interference between Rat THPO and analogues was observed.
Sequence Length	326
Samples	Serum, plasma
Detection Range	0.312 ng/ml-20 ng/ml
Sensitivity	0.078 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for THPO elisa kit	Introduction: Thrombopoietin, also known as TPO, is a glycoprotein hormone produced mainly by the liver and the kidney that regulates the production of platelets by the bone marrow. In the liver it is produced by parenchymal cells and sinusoidal endothelial cells. In the kidney it is made by proximal convoluted tubule cells. Along with these it is made by striated muscle and stromal cells in the bone marrow. In the liver, its production is augmented by interleukin 6 (IL-6). The thrombopoietin gene is located on the long arm of chromosome 3 (q26.3-27). Abnormalities in this gene occur in some hereditary forms of thrombocytosis (high platelet count) and in some cases of leukemia. Thrombopoietin shares its first 153 amino acids with erythropoietin. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to TPO. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for TPO and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain TPO, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of TPO in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13592113
NCBI GeneID	81811
NCBI Accession #	NP_112395.1
NCBI GenBank Nucleotide #	NM_031133.2
UniProt Accession #	P49745
Molecular Weight	34,556 Da
NCBI Official Full Name	thrombopoietin
NCBI Official Synonym Full Names	thrombopoietin
NCBI Official Symbol	Thpo
NCBI Protein Information	thrombopoietin
UniProt Protein Name	Thrombopoietin
UniProt Gene Name	Thpo
UniProt Entry Name	TPO_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.