

Mouse TPO ELISA Kit | TPO elisa kit

Mouse TPO PicoKine ELISA Kit

CATALOG #
AAA45287

REACTIVITY
Mouse

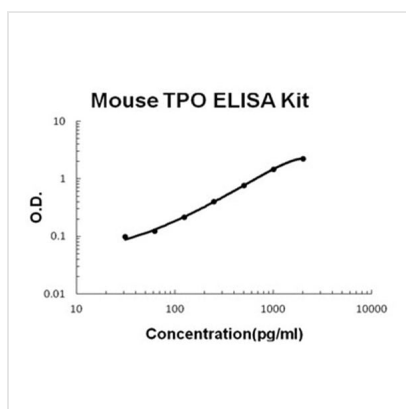
PRODUCT SYNONYMS

TPO; Mouse TPO PicoKine ELISA Kit; Thrombopoietin; thyroid peroxidase; C mpl ligand; Megakaryocyte colony stimulating factor; Megakaryocyte growth and development factor; Megakaryocyte stimulating factor; MGC163194; MGDF; MKCSF; ML; MPL ligand; MPLLG; Myeloproliferative leukemia virus oncogene ligand; OTTHUMP00000210504; THPO; TPO elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant mouse TPO
Sequence Length	356
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Assay Type	Sandwich
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	< 5pg/ml
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Mouse TPO PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for TPO elisa kit	Principle of the assay: mouse TPO ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for TPO has been precoated onto 96-well plates. Standards(NSO,S22-T356) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TPO is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse TPO amount of sample captured in plate. Background: Thrombopoietin (TPO) is also called megakaryocyte growth and development factor (MGDF). TPO, a lineage-specific cytokine affecting the proliferation and maturation of megakaryocytes from committed progenitor cells, is believed to be the major physiological regulator of circulating platelet levels.¹ Human, dog, and mouse cDNAs for MGDF are highly conserved and encode open reading frames for proteins of 353, 352, and 356 amino acids, respectively, including predicted signal peptides. MGDF is a novel cytokine that regulates megakaryocyte development and is a ligand for the MPL receptor. The human MGDF gene has been mapped to chromosome 3q26.3. ^{2,3} The standard product used in this kit is gene recombinant mouse TPO, consisting of 335 amino acids with the molecular mass of 35KDa. As a result of glycosylation, the molecular mass is 75KDa.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	730983
NCBI GeneID	21832
UniProt Accession #	P40226; JC4227
Molecular Weight	37,384 Da
NCBI Official Full Name	Thrombopoietin
NCBI Official Synonym Full Names	thrombopoietin
NCBI Official Symbol	Thpo
NCBI Official Synonym Symbols	ML; Tpo; Mgdf; Mpllg
NCBI Protein Information	thrombopoietin; C-mpl ligand; megakaryocyte colony-stimulating factor; megakaryocyte growth and development factor; myeloproliferative leukemia virus oncogene ligand
UniProt Protein Name	Thrombopoietin
UniProt Gene Name	Thpo
UniProt Synonym Gene Names	ML; MGDF
UniProt Entry Name	TPO_MOUSE

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.