

Datasheet for KOA0310**Mouse TPO ELISA Kit****Overview**

Description:	Mouse TPO AccuSignal ELISA Kit - KOA0310
Item No.:	KOA0310
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	31.2 pg/ml - 2000 pg/ml

Product Details

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. 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. The standard product used in this kit is gene recombinant mouse TPO, consisting of 419 amino acids with the molecular mass of 35KDa. As a result of glycosylation, the molecular mass is 75KDa.
Synonyms:	C mpl ligand, Megakaryocyte colony stimulating factor, Megakaryocyte growth and development factor, Megakaryocyte stimulating factor, MGC164194, MGDF, MKCSF, ML, MPL ligand, MPLLG, Myeloproliferative leukemia virus oncogene ligand, OTTHUMP00000210504, THPO, TPO
Detection Kit Type:	ELISA Kit
Detection Range:	31.2 pg/ml - 2000 pg/ml
Sensitivity:	<5 pg/ml

Target Details

Gene Name:	TPO
Reactivity:	Mouse

Immunogen:	Expression system for standard: NSO; Immunogen sequence: S22-T356
Purity/Specificity:	Natural and recombinant mouse TPO. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P40226 • NCBI - NP_001166976.1 • GenelD - 21832 • KOA0310 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml mouse TPO standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse TPO standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Anticoagulant:	Heparin Sodium
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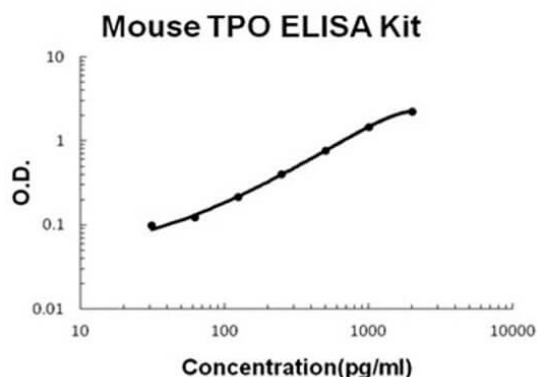
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiration:	See kit insert for complete instructions.

Images

ELISA

Mouse TPO AccuSignal ELISA Kit standard curve. Assay
Range: 31.2pg/ml-2000pg/ml. Sensitivity: <5pg/ml.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.