Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for KOA0162

Mouse EPO ELISA Kit

Overview

Description:	Mouse EPO AccuSignal ELISA Kit - KOA0162
Item No.:	KOA0162
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	46.9 pg/ml - 3000 pg/ml

Product Details

Background:	Erythropoietin, EPO, also known as hematopoietin or hemopoietin, is a glycoprotein hormone that controls erythropoiesis, or red blood cell production. It is a cytokine for erythrocyte(red blood cell) precursors in the bone marrow. Its gene is mapped to 7q22. It is said that the EPO gene encodes a deduced 193-amino acid propolypeptide. This hormone can be found in kidney and liver. It is the hormone that regulates red blood cell production. And it plays an important role in the brain's response to neuronal injury. What's more, EPO is also involved in the wound healing process.
Synonyms:	C C motif chemokine 24, CCL24, Chemokine (C C motif) ligand 24, Chemokine CC Motif Ligand 2, CK beta 6, Ckb 6, Ckb6, Eosinophil chemotactic protein 2, Eotaxin 2 like protein, MPIF 2, MPIF2, Myeloid progenitor inhibitory factor 2, OTTHUMP00000210225, SCYA24, Small inducible cytokine A24, Small inducible cytokine subfamily A (Cys Cys) member 24
Detection Kit Type:	ELISA Kit
Detection Range:	46.9 pg/ml - 3000 pg/ml
Sensitivity:	<15 pg/ml

Target Details

Gene Name:	EPO
Reactivity:	Mouse
Immunogen:	Expression system for standard: NSO; Immunogen sequence: A27-R192

Purity/Specificity:	Natural and recombinant mouse EPO. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P07321 • NCBI - NP_031968.1 • GeneID - 13856 • KOA0162 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 3000pg/ml, 1500pg/ml, 750pg/ml,,419.pg/ml, 187.5pg/ml, 93.8pg/ml, 46.9pg/ml mouse EPO 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 supernatants, serum, plasma(heparin) or tissue lysates to each empty well. We recommend that each mouse EPO standard solution and each sample is measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	46.9pg/ml-3000pg/ml
Other:	DOE: 2-8° C - 12/26/2024 -20° C - 06/26/2025

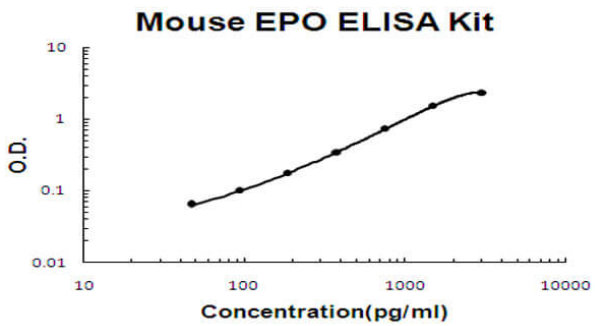
Formulation

Concentration:	Neat
Anticoagulant:	Heparin Sodium

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 EPO AccuSignal ELISA standard curve. Assay Range: 46.9pg/ml-3000pg/ml. Sensitivity: <15pg/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.