

Datasheet for KOA0815

Rat EPO ELISA Kit

Overview

Description:	Rat EPO AccuSignal ELISA Kit - KOA0815
Item No.:	KOA0815
Size:	1 Kit
Applications:	ELISA
Reactivity:	Rat
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. This gene is mapped to 7q22. It is said that the EPO gene encodes a deduced 193-amino acid polypeptide. 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:	EP, EPO, EPO_HUMAN, Epoetin, Erythropoietin, MVCD2
Detection Kit Type:	ELISA Kit
Detection Range:	46.9 pg/ml - 3000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	EPO
Reactivity:	Rat
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: T44-K226
Purity/Specificity:	Natural and recombinant rat EPO. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P29676

- [NCBI - NP_058697.1](#)
- [GeneID - 24335](#)
- [KOA0815 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, 419pg/ml, 187.5pg/ml, 93.8pg/ml, 46.9pg/ml rat 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 rat cell culture supernatants, serum, plasma(heparin) or tissue homogenates to each empty well. We recommend that each rat 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.

Formulation

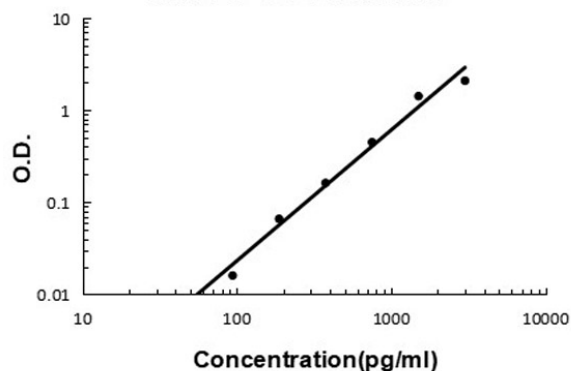
Anticoagulant:	Heparin Sodium
-----------------------	----------------

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

Rat EPO ELISA Kit



ELISA

Rat EPO ELISA Kit standard curve.

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.