

Datasheet for KOA0246**Human Leptin ELISA Kit****Overview**

Description:	Human Leptin AccuSignal ELISA Kit - KOA0246
Item No.:	KOA0246
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	62.5 pg/ml - 4000 pg/ml

Product Details

Background: Leptin(or obese, OB) is a circulating hormone that is expressed abundantly and specifically in the adipose tissue. Human ob protein is a 166-amino acid polypeptide with a putative signal sequence and is 84 and 83% homologous to the mouse and rat ob proteins, respectively. Northern blot analysis reveals that OB RNA is present at a high level in adipose tissue but at much lower levels in placenta and heart. Indeed, Leptin is first described as an adipocyte-derived signalling factor, which, after interaction with its receptors, induces a complex response including control of bodyweight and energy expenditure. Leptin seems in addition to its role in metabolic control to have important roles in reproduction and neuroendocrine signalling. Leptin is a powerful inhibitor of bone formation in vivo. Comparative mapping of mouse and human DNA indicates that the ob gene is located within a region of mouse chromosome 6 that is homologous to a portion of human chromosome 7q. The standard product used in this kit is recombinant human Leptin.

Synonyms:	CD295, HuB219, LEP-R, LEPR, LEPR_HUMAN, Leptin receptor, OB receptor, OB-R, OBR
Detection Kit Type:	ELISA Kit
Detection Range:	62.5 pg/ml - 4000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	LEP
Reactivity:	Human

Immunogen:	Expression system for standard: E.coli; Immunogen sequence: V22-C167
Purity/Specificity:	Natural and recombinant human Leptin. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - A4D0Y8 • NCBI - NP_000221.1 • GeneID - 3952 • KOA0246 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml human Leptin 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 human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human Leptin 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.
Other:	DOE: 2-8° C - 05/19/2020 -20° C - 11/17/2020

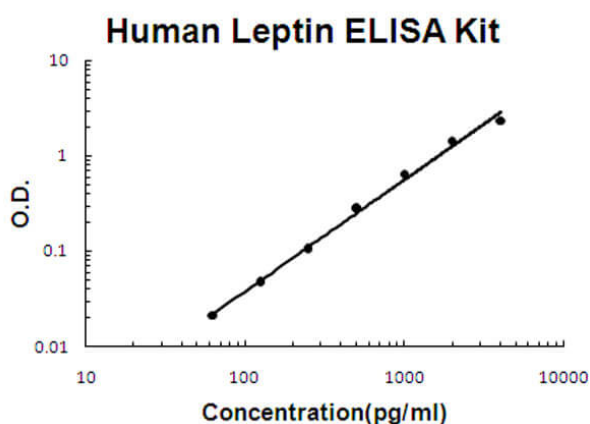
Formulation

Concentration:	1 Kit
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

Human Leptin AccuSignal ELISA Kit standard curve. Assay Range: 62.5pg/ml-4000pg/ml. Sensitivity: <10pg/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.