Order online now!

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

Datasheet for KOA0457

Human IGF1R ELISA Kit

Overview

Description:	Human IGF1R AccuSignal ELISA Kit - KOA0457
Item No.:	KOA0457
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10000 pg/ml

Product Details

Background:	IGF1R, also called IGFR or insulin-like growth factor 1 receptor, is a protein that found on the surface of human cells. This gene is mapped to 15q26.3. IGF1R belongs to the large class of tyrosine kinase receptors. This receptor mediates the effects of IGF-1, which is a polypeptide protein hormone similar in molecular structure to insulin. It plays an important role in growth and continues to have anabolic effects in adults - meaning that it can induce hypertrophy of skeletal muscle and other target tissues. IGF1R also plays a critical role in transformation events. It is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival.
Synonyms:	CD221, IGF 1R, IGF I receptor, IGF-I receptor, Igf1r, IGF1R_HUMAN, IGFIR, IGFR, Insulin like growth factor 1 receptor, Insulin like growth factor I receptor, Insulin-like growth factor 1 receptor beta chain, Insulin-like growth factor I receptor, JTK13, MGC142170, MGC142172, MGC18216
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	IGF1R
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: E31-N932

Purity/Specificity:	Natural and recombinant human IGF1R. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P08069 • NCBI - NP_000866.1 • GeneID - 3480 • KOA0457 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human IGF1R 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 IGF1R 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.

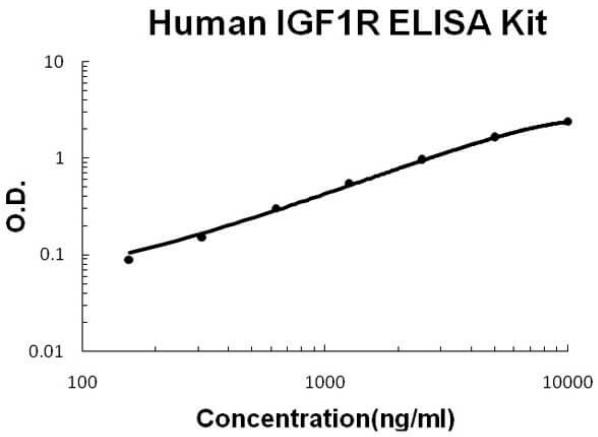
Formulation

Anticoagulant:	Heparin Sodium

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 IGF1R AccuSignal ELISA Kit standard curve.
Assay Range: 156pg/ml-10000pg/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.