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Datasheet for KOA0329

Human VEGF ELISA Kit

Overview

Description:	Human VEGF AccuSignal ELISA Kit - KOA0329
Item No.:	KOA0329
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	31.2 pg/ml - 2000 pg/ml (serum, plasma), 15.6 pg/ml - 1000 pg/ml (cell culture supernates)

Product Details

Background:	Vascular permeability factor/vascular endothelial growth factor(VPF/VEGF), a potent cytokine expressed by most malignant tumors, has critical roles in vasculogenesis and both physiological and pathological angiogenesis. VEGF produced by tumor cells potently stimulates endothelial cell proliferation and angiogenesis and plays a key role in the pathophysiology of several neoplasias. VEGF may also play a pivotal role in mediating the development and progression of diabetic retinopathy. VEGF, a major regulator of angiogenesis, binds to two receptor tyrosine kinases, KDR/Flk-1 and Flt-1. The VEGF gene is mapped by fluorescence in situ hybridization to chromosome 6p12.
Synonyms:	MGC70609, MVCD1, Vascular endothelial growth factor, Vascular endothelial growth factor A, Vascular permeability factor, VEGF A, VEGFA, VPF
Detection Kit Type:	ELISA Kit
Detection Range:	31.2 pg/ml - 2000 pg/ml (serum, plasma), 15.6 pg/ml - 1000 pg/ml (cell culture supernates)
Sensitivity:	<1 pg/ml

Target Details

Gene Name:	VEGFA
Reactivity:	Human
Immunogen:	Expression system for standard: sf21; Immunogen sequence: A27-R191
Purity/Specificity:	Natural and recombinant human VEGF. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:	• UniProtKB - P15692 • NCBI - NP_001020537.2 • GeneID - 7422 • KOA0329 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 human VEGF 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, citrate) to each empty well. We recommend that each human VEGF 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.
Other:	DOE: 2-8° C - 09/25/21 -20° C - 03/25/2022

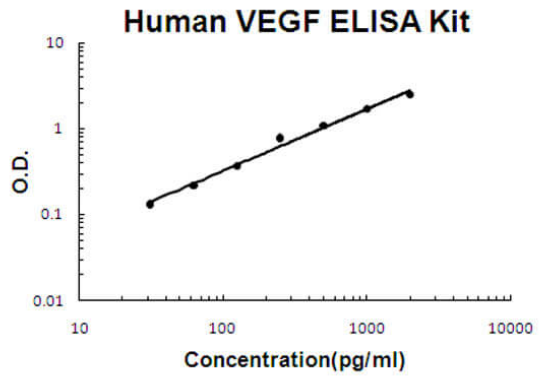
Formulation

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 VEGF AccuSignal ELISA Kit standard curve. Assay Range: 31.2pg/ml-2000pg/ml (humanserum,plasma)15.6pg/ml-1000pg/ml (cellculturesupernates). Sensitivity: <1pg/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.