

Datasheet for KOA0537**Human PEDF - SerpinF1 ELISA Kit****Overview**

Description:	Human PEDF/SerpinF1 AccuSignal ELISA Kit - KOA0537
Item No.:	KOA0537
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10,000 pg/ml

Product Details

Background:	Pigment epithelium-derived factor (PEDF) is also known as serpin F1 (SERPINF1). In humans, it is encoded by the SERPINF1 gene. PEDF has a variety of functions including antiangiogenic, antitumorigenic, and neurotrophic properties. It suppresses retinal neovascularization and endothelial cell proliferation. And Antiangiogenic function is also conferred by PEDF through inhibition of both VEGFR-1 and VEGFR-2. In addition, the antitumorigenic effects of PEDF are not only due to inhibition of supporting vasculature, but also due to effects on the cancer cells themselves. PEDF is shown to inhibit cancer cell proliferation and increase apoptosis via the FAS/FASL pathway. Expression of PEDF in the human retina is found at 7.4 weeks of gestation, suggesting it may play a role in retinal neuron differentiation.
Synonyms:	Alpha 2 antiplasmin, Cell proliferation-inducing gene 35 protein, EPC1, OI12, OI6, PEDF, PEDF_HUMAN, PIG35, Pigment epithelium derived factor, Pigment epithelium-derived factor, Proliferation inducing protein 35, serine (or cysteine) proteinase inhibitor clade F (alpha-2 antiplasmin, pigment epithelium derived factor) member 1, SERPIN F1, Serpin peptidase inhibitor clade F member , serpin peptidase inhibitor clade F (alpha-2 antiplasmin pigment epithelium derived factor) member 1, SERPINF1
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10,000 pg/ml
Sensitivity:	<20 pg/ml

Target Details

Gene Name:	SERPINF1
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Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: M1-P418
Purity/Specificity:	Natural and recombinant human PEDF. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P36955 • NCBI - NP_002606.3 • GenelD - 5176 • KOA0537 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 50ng/ml, 25ng/ml, 12.5ng/ml, 6.25ng/ml, 3.12ng/ml, 1.56ng/ml, 0.78ng/ml human PEDF 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. We recommend that each human PEDF 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:	0.78 ng/ml-50ng/ml
Other:	DOE: 2-8° C - 01/18/2024 -20° C - 07/18/2024

Formulation

Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

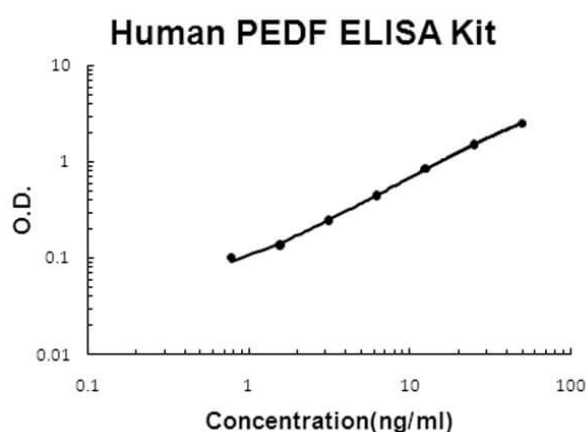
Shipping & Handling

Shipping Condition:	Wet Ice
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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 PEDF/SerpinF1 AccuSignal ELISA Kit standard curve.
Assay Range: 0.78ng/ml-50ng/ml. Sensitivity: <20pg/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.