

Datasheet for KOA0653**Human PON1 ELISA Kit****Overview**

Description:	Human PON1 AccuSignal ELISA Kit - KOA0653
Item No.:	KOA0653
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	31.2 pg/ml - 2000 pg/ml

Product Details

Background:	Serum paraoxonase/arylesterase 1(PON1) also known as aromatic esterase 1 or serum aryldialkylphosphatase 1 is an enzyme that in humans is encoded by the PON1 gene. The PON1 gene was mapped to chromosome 7q21-q22, and the mouse Pon1 gene was mapped to the proximal end of chromosome 6. PON1 is responsible for hydrolysing organophosphate pesticides and nerve gasses. Polymorphisms in the PON1 gene significantly affect the catalytic ability of the enzyme. PON1(paraoxonase 1) is also a major anti-atherosclerotic component of high-density lipoprotein(HDL).
Synonyms:	A esterase 1, A-esterase 1, Aromatic esterase 1, Arylesterase 1, Arylesterase B type, ESA, Esterase A, K 45, K-45, MVCD5, Paraoxonase 1, Paraoxonase, Paraoxonase B type, Paraoxonase, plasma, Paraoxonase1, PON 1, PON, PON1, PON1_HUMAN, Serum aryldialkylphosphatase, Serum aryldialkylphosphatase 1, Serum paraoxonase/arylesterase 1
Detection Kit Type:	ELISA Kit
Detection Range:	31.2 pg/ml - 2000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	PON1
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: A2-L355

Purity/Specificity: Natural and recombinant human PON1. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - P27169](#)
- [NCBI - NP_000437.3](#)
- [GeneID - 5444](#)
- [KOA0653 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 PON1 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, cell lysates, serum, plasma(heparin) or tissue homogenates to each empty well. It is recommended that each human PON1 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.

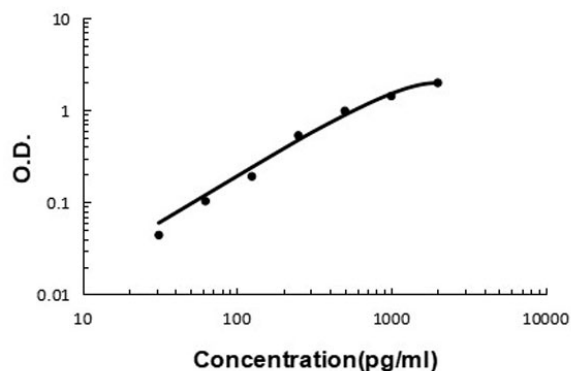
Expiration: See kit insert for complete instructions.

Images

Human PON1 ELISA Kit

ELISA

Human PON1 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.