

Datasheet for KOA0748**Human Prostasin ELISA Kit****Overview**

Description:	Human Prostasin AccuSignal ELISA Kit - KOA0748
Item No.:	KOA0748
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	1.56 ng/ml - 100 ng/ml

Product Details

Background:	Prostasin is a protein that in humans is encoded by the PRSS8 gene. It is a single-copy gene and mapped to 16p11.2. Prostasin is likely to be the more physiologically relevant protease. This gene encodes a trypsinogen, which is a member of the trypsin family of serine proteases. Coexpression of Prostasin with either Xenopus or rat ENaC in Xenopus oocytes resulted in a 60% to 80% increase in amiloride-sensitive sodium currents, and that the addition of aprotinin, a serine protease inhibitor, completely prevented this activation. This enzyme is highly expressed in prostate epithelia and is one of several proteolytic enzymes found in seminal fluid. The proprotein is cleaved to produce a light chain and a heavy chain which are associated by a disulfide bond. It is active on peptide linkages involving the carboxyl group of lysine or arginine.
Synonyms:	2410039E18Rik, AI313909, C79772, CAP1, Channel Activating Protease 1, mCAP1, Prostasin, Prostasin heavy chain, protease, serine, 8, Prss8, PRSS8_HUMAN, Serine protease 8
Detection Kit Type:	ELISA Kit
Detection Range:	1.56 ng/ml - 100 ng/ml
Sensitivity:	<50 pg/ml

Target Details

Gene Name:	PRSS8
Reactivity:	Human
Immunogen:	Expression system for standard: CHO; Immunogen sequence: A33-G319

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

Relevant Links:

- [UniProtKB - Q16651](#)
- [NCBI - NP_002764.1](#)
- [GeneID - 5652](#)
- [KOA0748 Protocol](#)

Application Details

Tested Applications: ELISA

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 100ng/ml, 50ng/ml, 25ng/ml, 12.5ng/ml, 6.25ng/ml, 3.12ng/ml, 1.56ng/ml human Prostatin 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, plasma(heparin, EDTA) or urine to each empty well. It is recommended that each human Prostatin 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

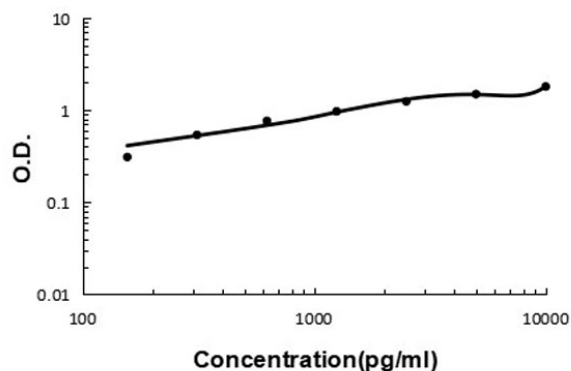
Shipping Condition: Wet Ice

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 Prostatin ELISA Kit



ELISA

Human Prostatin 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.