

Datasheet for KOA0730**Human SPINK1 - TATI ELISA Kit****Overview**

Description:	Human SPINK1/TATI AccuSignal ELISA Kit - KOA0730
Item No.:	KOA0730
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10,000 pg/ml

Product Details

Background:	Serine protease inhibitor Kazal-type 1, also called TATI or PSTI, is a protein that in humans is encoded by the SPINK1 gene. It is mapped to 5q32. SPINK1 gene contains 4 exons spanning approximately 7.5 kb. It was initially detected in urine of patients with ovarian cancer. This peptide is also produced by the mucosa of the gastrointestinal tract where it may protect the mucosal cells from proteolytic breakdown. The SPINK1 gene encodes pancreatic secretory trypsin inhibitor, which is secreted from pancreatic acinar cells into pancreatic juice. Its physiologic role was thought to be the prevention of trypsin-catalyzed premature activation of zymogens within the pancreas and the pancreatic duct. Mutations in this gene are associated with hereditary pancreatitis and tropical calcific pancreatitis.
Synonyms:	ISK1_HUMAN, Pancreatic secretory trypsin inhibitor, Pancreatic serine protease inhibitor, Kazal, PCTT, PSTI, Serine protease inhibitor Kazal type 1, Serine protease inhibitor Kazal-type 1, Spink 3, SPINK1, Spink3, TaTI, TCP, Tumor associated trypsin inhibitor, Tumor-associated trypsin inhibitor
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10,000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	SPINK1
Reactivity:	Human

Immunogen:	Expression system for standard: E.coli; Immunogen sequence: D24-C79
Purity/Specificity:	Natural and recombinant human SPINK1. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P00995 • NCBI - NP_003113.2 • GenelD - 6690 • KOA0730 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10,000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human SPINK1 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) to each empty well. It is recommended that each human SPINK1 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.

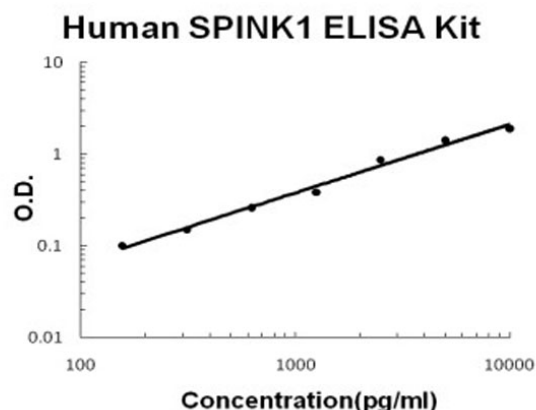
Formulation

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 SPINK1/TATI 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.