

Human SPINK1/TATI ELISA Kit | SPINK1 elisa kit

Human SPINK1/TATI PicoKine ELISA Kit

CATALOG #
AAA45775

REACTIVITY
Human

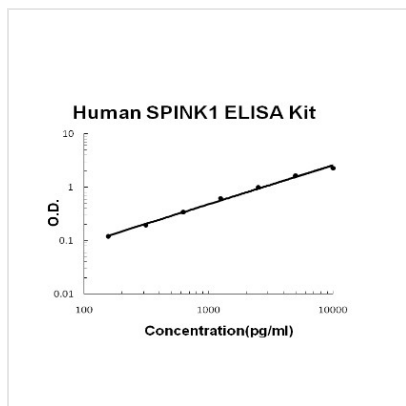
PRODUCT SYNONYMS

SPINK1/TATI; Human SPINK1/TATI PicoKine ELISA Kit; Pancreatic secretory trypsin inhibitor; serine peptidase inhibitor; Kazal type 1; ISK1_HUMAN; 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; SPINK1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human SPINK1
Sequence Length	79
Samples	Cell culture supernates, serum and plasma (heparin)
Assay Type	Sandwich
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human SPINK1/TATI PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for SPINK1 elisa kit	Principle of the assay: human SPINK1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for SPINK1 has been precoated onto 96-well plates. Standards(E.coli, D24-C79) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for SPINK1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human SPINK1 amount of sample captured in plate. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	124856
NCBI GeneID	6690
UniProt Accession #	P00995
Molecular Weight	8,507 Da
NCBI Official Full Name	Pancreatic secretory trypsin inhibitor
NCBI Official Synonym Full Names	serine peptidase inhibitor, Kazal type 1
NCBI Official Symbol	SPINK1
NCBI Official Synonym Symbols	TCP; PCTT; PSTI; TATI; Spink3
NCBI Protein Information	pancreatic secretory trypsin inhibitor; tumor-associated trypsin inhibitor; serine protease inhibitor, Kazal type 1
UniProt Protein Name	Pancreatic secretory trypsin inhibitor
UniProt Gene Name	SPINK1
UniProt Synonym Gene Names	PSTI; TATI
UniProt Entry Name	ISK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.