

Human SPINK1 ELISA Kit | SPINK1 elisa kit

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CATALOG # AAA105812	REACTIVITY Human	APPLICATIONS ELISA
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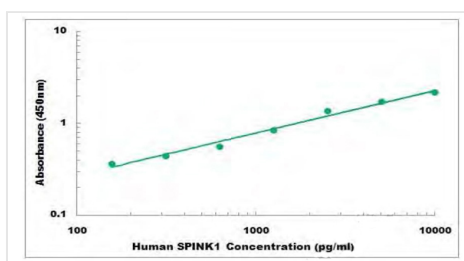
PRODUCT SYNONYMS

SPINK1; Human SPINK1 ELISA Kit; PSTI; Pancreatic secretory trypsin inhibitor; Serine protease inhibitor Kazal-type 1; Tumor-associated trypsin inhibitor; TATI; SPINK1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human SPINK1 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human SPINK1 proteins within the range of 156 pg/ml - 10000 pg/ml.
Sequence Length	79
Samples	Culture Supernatants, Serum, Plasma
Sensitivity	< 10 pg/ml
Applicable Applications for SPINK1 elisa kit	ELISA (Sandwich ELISA)
Detection Method	Colorimetric
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SPINK1 elisa kit	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. Principle of the Assay: The Human SPINK1 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human SPINK1 in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Human SPINK1 coated on a 96-well plate. Standards and samples are pipetted into the wells and SPINK1 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human SPINK1 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of SPINK1 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	45505132
NCBI GeneID	6690
NCBI Accession #	NP_003113.2
NCBI GenBank Nucleotide #	NM_003122.4
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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/spink1/105812>