

Human SPINK5 ELISA Kit | SPINK5 elisa kit

Human SPINK5 PicoKine ELISA Kit

CATALOG #
AAA125250

REACTIVITY
Human

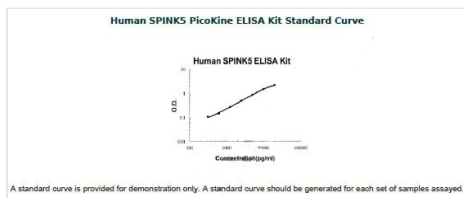
PRODUCT SYNONYMS

SPINK5; Human SPINK5 PicoKine ELISA Kit; Human SPINK5; serine peptidase inhibitor; Kazal type 5; Serine protease inhibitor Kazal-type 5; Lympho-epithelial Kazal-type-related inhibitor; LEKTI; SPINK5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human SPINK5
Sequence Length	1094
Samples	Cell culture supernatants, serum and plasma (heparin, edta, citrate)
Detection Range	312 pg/ml - 20,000 pg/ml
Sensitivity	<50 pg/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 across 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. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SPINK5 elisa kit	Principle of the Assay: The Picokine™ Human SPINK5 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human SPINK5 with a 96-well strip plate that is pre-coated with antibody specific for SPINK5. The detection antibody is a biotinylated antibody specific for SPINK5. The capture antibody is a monoclonal antibody from mouse and the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human SPINK5 with immunogen: Expression system for standard: NS0; Immunogen sequence: K23-E1064. The kit is analytically validated with ready-to-use reagents. To measure Human SPINK5, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human SPINK5 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human SPINK5 in the sample. Background/Introduction: Lympho-epithelial Kazal-type-related inhibitor (LEKTI) also known as serine protease inhibitor Kazal-type 5 (SPINK5) is a protein that in humans is encoded by the SPINK5 gene. This gene is mapped to 5q32. This gene encodes a multidomain serine protease inhibitor that contains 15 potential inhibitory domains. The encoded preproprotein is proteolytically processed to generate multiple protein products, which may exhibit unique activities and specificities. These proteins may play a role in skin and hair morphogenesis, as well as anti-inflammatory and antimicrobial protection of mucous epithelia. Mutations in this gene may result in Netherton syndrome, a disorder characterized by ichthyosis, defective cornification, and atopy. This gene is present in a gene cluster on chromosome 5. Alternative splicing results in multiple transcript variants.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	189163501
NCBI GeneID	11005
NCBI Accession #	NP_001121170.1
NCBI GenBank Nucleotide #	NP_001121170.1
UniProt Accession #	Q9NQ38
NCBI Official Full Name	serine protease inhibitor Kazal-type 5 isoform a preproprotein
NCBI Official Synonym Full Names	serine peptidase inhibitor, Kazal type 5
NCBI Official Symbol	SPINK5
NCBI Official Synonym Symbols	NS; NETS; LEKTI; LETKI; VAKTI
NCBI Protein Information	serine protease inhibitor Kazal-type 5
UniProt Protein Name	Serine protease inhibitor Kazal-type 5
UniProt Gene Name	SPINK5
UniProt Synonym Gene Names	LEKTI
UniProt Entry Name	ISK5_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.