ARG82533
Human SPINK5 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82533-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82533-002	Standard	2 X 10 ng/vial	4°C
ARG82533-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82533-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82533-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82533-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82533-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82533-008	25X Wash buffer	20 ml	4°C
ARG82533-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82533-010	STOP solution	10 ml (Ready to use)	4°C
ARG82533-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82533 Human SPINK5 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human SPINK5 in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	SPINK5
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	156 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	312 - 20000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.0% Inter-Assay CV: 5.8%

Alternate Names	LETKI; LEKTI; Lympho-epithelial Kazal-type-related inhibitor; Serine protease inhibitor Kazal-type 5; VAKTI; NS; NETS

Application Instructions

Assay Time	~ 5 hours

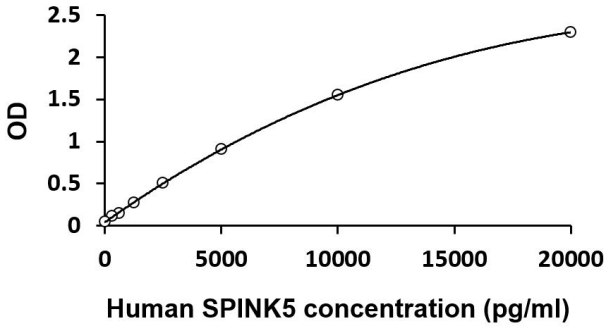
Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	SPINK5
Gene Full Name	serine peptidase inhibitor, Kazal type 5
Background	This gene encodes a multidomain serine protease inhibitor that contains 15 potential inhibitory domains. The inhibitor may play a role in skin and hair morphogenesis and anti-inflammatory and/or antimicrobial protection of mucous epithelia. Mutations may result in Netherton syndrome, a disorder characterized by ichthyosis, defective cornification, and atopy. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Serine protease inhibitor, probably important for the anti-inflammatory and/or antimicrobial protection of mucous epithelia. Contribute to the integrity and protective barrier function of the skin by regulating the activity of defense-activating and desquamation-involved proteases. Inhibits KLK5, it's major target, in a pH-dependent manner. Inhibits KLK7, KLK14 CASP14, and trypsin. [UniProt]
Highlight	Related products: New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Proteolytically processed by furin in individual domains (D1, D5, D6, D8 through D11, and D9 through D15) exhibiting various inhibitory potentials for multiple proteases. [UniProt]
Cellular Localization	Secreted. [UniProt]

Images



ARG82533 Human SPINK5 ELISA Kit standard curve image

ARG82533 Human SPINK5 ELISA Kit results of a typical standard run with optical density reading at 450 nm.