

Human Secretory leukocyte protease inhibitor (SLPI) ELISA Kit



Catalog No: #EK12075

Orders: order@signalwayantibody.com

Package Size: #EK12075-1 48T #EK12075-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Secretory leukocyte protease inhibitor (SLPI) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ALK1; ALP; BLPI; HUSI; HUSI-I; MPI; WAP4; WFDC4; WAP four-disulfide core domain 4 antileukoproteinase mucus proteinase inhibitor secretory leukocyte protease inhibitor (antileukoproteinase) seminal
Accession No.	P03973
Uniprot	P03973
GeneID	6590;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:62.5-4000 pg/mL

Sensitivity:27.1 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate SLPI in samples. An antibody specific for SLPI has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySLPI present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLPI is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SLPI bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Antileukoproteinase is secreted inhibitor which protects epithelial tissues from serine proteases. It is found in various secretions including seminal plasma, cervical mucus, and bronchial secretions, and has affinity for trypsin, leukocyte elastase, and cathepsin G. Its inhibitory effect contributes to the immune response by protecting epithelial surfaces from attack by endogenous proteolytic enzymes; the protein is also thought to have broad-spectrum anti-biotic activity.**Secretory leukocyte protease inhibitor (SLPI)** is a highly cationic single-chain protein with eight intramolecular disulfide bonds. It is found in large quantities in bronchial, cervical, and nasal mucosa, saliva, and seminal fluids. SLPI inhibits

human leukocyte elastase, human cathepsin G, human trypsin, neutrophil elastase, and mast cell chymase.

Note: This product is for in vitro research use only