

For Research Use Only

# SLPI Polyclonal antibody

Catalog Number: 32205-1-AP



## Basic Information

**Catalog Number:**

32205-1-AP

**Size:**

700 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG36523

**GenBank Accession Number:**

BC020708

**GeneID (NCBI):**

6590

**UNIPROT ID:**

P03973

**Full Name:**

secretory leukocyte peptidase inhibitor

**Calculated MW:**

14 kDa

**Observed MW:**

14 kDa

**Purification Method:**

Antigen affinity Purification

**Recommended Dilutions:**

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

## Applications

**Tested Applications:**

WB, IP, ELISA

**Species Specificity:**

human

**Positive Controls:**

WB : human saliva,

IP : HeLa cells,

## Background Information

Secretory leukocyte protease inhibitor (SLPI) is also named as Antileukoproteinase (ALP), BLPI, HUSI-1, WAP4, WFDC4 and mucus proteinase inhibitor (MPI). The SLPI is a multifunctional protein involved in the modulation of immunological response and the inhibition of protease activities. SLPI acts as an inhibitor of proteases, exerts antibacterial properties, and suppresses the transcription of proinflammatory genes through the nuclear factor-kappa B (NF- $\kappa$ B) pathway (PMID: 37356220). SLPI is a serine protease inhibitor and also as a critical mediator that is involved in the PTH-mediated shift to the osteoblastic phase (PMID: 17474882). SLPI induction in osteoblasts enhances its differentiation, and increases osteoblast-osteoclast contact, thereby suppressing osteoclastic function (PMID: 17474882). SLPI is an evolutionarily conserved, pleiotropic protein expressed at mucosal surfaces, mainly by epithelial cells (PMID: 33602652). SLPI maintains homeostasis at barrier tissues by preventing tissue destruction and regulating the threshold of inflammatory immune responses, while protecting the host from infection. However, as recent studies demonstrate that overexpression of SLPI increases the metastatic potential of epithelial tumors (PMID: 33602652). The role of this protein as a regulatory agent has been implicated in various types of cancer (PMID: 37356220).

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

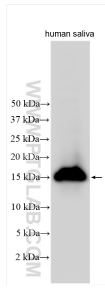
T: 4006900926

E: Proteintech-CN@ptglab.com

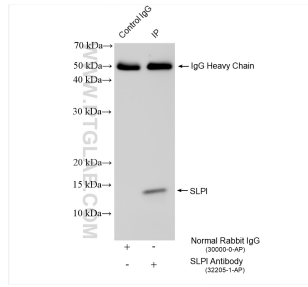
W: ptgcn.com

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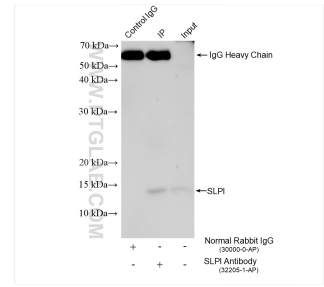
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 32205-1-AP (SLPI antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-SLPI (IP:32205-1-AP, 4ug; Detection:32205-1-AP 1:800) with HeLa cells lysate 1200 ug.



IP result of anti-SLPI (IP:32205-1-AP, 4ug; Detection:32205-1-AP 1:800) with HeLa cells lysate 1200 ug.